HARYANA STATE POLLUTION CONTROL BOARD

HSPCB **Regional Office, Haryana State Pollution Control Board Rohtak, SCO No. A-6, A-7 and A-8, First Floor, Sector-36, Suncity Commercial Complex, Rohtak-124001".Email:-hspcbroroh@gmail.com**

Website: www.hrocmms.nic.in E-Mail - hspcbho@gmail.com

Telephone No.: 0172-2577870-73

No. HSPCB/Consent/ : 320219023ROHCTE43993778 **Dated:12/09/2023**

To.

M/s : Spice One Builders Pvt Ltd
8D, Hansalya, Barakhambha Road, new delhi
ROHTAK
124021

Sub. : Grant of consent to Establish to M/s Spice One Builders Pvt Ltd

Please refer to your application no. 43993778 received on dated 2023-09-01 in regional office Rohtak.

With reference to your above application for consent to establish,M/s Spice One Builders Pvt Ltd is here by granted consent as per following specification/Terms and conditions.

Consent Under	AIR/WATER
Period of consent	12/09/2023 - 11/09/2028
Industry Type	Infrastructure Development Project
Category	ORANGE
Investment(In Lakh)	3521.0
Total Land Area (Sq. meter)	63991.0
Total Builtup Area (Sq. meter)	0.0
Quantity of effluent	
1. Trade	0.0 KL/Day
2. Domestic	462.0 KL/Day
Number of outlets	1.0
Mode of discharge	
1. Domestic	Reuse/flushing/road cleaning/horticultur
2. Trade	0
Permissible Domestic Effluent Parameters	
1. BOD	10 mg/l
2. COD	50 mg/l
3. TSS	20 mg/l
4. OG	10 mgl
5. Amonical nitogen	10 mgl

6. Fecal	100 mgl
Permissible Trade Effluent Parameters	
1. BOD	0 mg/l
Number of stacks	1
Height of stack	
1. 0	0 0
Permissible Emission parameters	
1. SPM	0 mg/m3
Capacity of boiler	
1. 0	0 Ton/hr
Type of Furnace	
1. 0	0 0
Type of Fuel	
1. Diesel	0 KL/day

Regional Officer, Rohtak

Haryana State Pollution Control Board.

Terms and conditions

1. The industry has declared that the quantity of effluent shall be 462 KL/Day i.e 0KL/Day for Trade Effluent, 0 KL/Day for Cooling, 462 KL/Day for Domestic and the same should not exceed .
2. The above 'Consent to Establish' is valid for 60 months from the date of its issue to be extended for another one year at the discretion of the Board or till the time the unit starts its trial production whichever is earlier. The unit will have to set up the plant and obtain consent during this period.
3. The officer/official of the Board shall have the right to access and inspection of the industry in connection with the various processes and the treatment facilities being provided simultaneously with the construction of building/machinery. The effluent should conform the effluent standards as applicable
4. That necessary arrangement shall be made by the industry for the control of Air Pollution before commissioning the plant. The emitted pollutants will meet the emission and other standards as laid/will be prescribed by the Board from time to time.
5. The applicant will obtain consent under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21/22 of the Air (Prevention & Control of Pollution) Act,1981 as amended to-date-even before starting trial production
6. The above Consent to Establish is further subject to the conditions that the unit complies with all the laws/rules/decisions and competent directions of the Board/Government and its functionaries in all respects before commissioning of the operation and during its actual working strictly.
7. No in-process or post-process objectionable emission or the effluent will be allowed, if the scheme furnished by the unit turns out to be defective in any actual experience
8. The Electricity Department will give only temporary connection and permanent connection to the unit will be given after verifying the consent granted by the Board, both under Water Act and Air Act.
9. Unit will raise the stack height of DG Set/Boiler as per Board's norms.

10. Unit will maintain proper logbook of Water meter/sub meter before/after commissioning.

11. That in the case of an industry or any other process the activity is located in an area approved and that in case the activity is sited in an residential or institutional or commercial or agricultural area, the necessary permission for siting such industry and process in an residential or institutional or commercial or agricultural area or controlled area under Town and Country Planning laws CLU or Municipal laws has to be obtained from the competent Authority in law permitting this deviation and be submitted in original with the request for consent to operate.

12. That there is no discharge directly or indirectly from the unit or the process into any interstate river or Yamuna River or River Ghaggar.

13. That the industry or the unit concerned is not sited within any prohibited distances according to the Environmental Laws and Rules, Notification, Orders and Policies of Central Pollution control Board and Haryana State Pollution Control Board.

14. That of the unit is discharging its sewage or trade effluent into the public sewer meant to receive trade effluent from industries etc. then the permission of the Competent Authority owing and operating such public sewer giving permission letter to his unit shall be submitted at time of consent to operate.

15. That if at any time, there is adverse report from any adjoining neighbor or any other aggrieved party or Municipal Committee or Zila Parishad or any other public body against the unit's pollution; the Consent to Establish so granted shall be revoked.

16. That all the financial dues required under the rules and policies of the Board have been deposited in full by the unit for this Consent to Establish.

17. In case of change of name from previous Consent to Establish granted, fresh Consent to Establish fee shall be levied.

18. Industry should adopt water conservation measures to ensure minimum consumption of water in their Process. Ground water based proposals of new industries should get clearance from Central Ground Water Authority for scientific development of previous resource.

19. That the unit will take all other clearances from concerned agencies, whenever required.

20. That the unit will not change its process without the prior permission of the Board.

21. That the Consent to Establish so granted will be invalid, if the unit falls in Aravali Area or non conforming area.

22. That the unit will comply with the Hazardous Waste Management Rules and will also make the non-leachate pit for storage of Hazardous waste and will undertake not to dispose off the same except for pit in their own premises or with the authorized disposal authority.

23. That the unit will submit an undertaking that it will comply with all the specific and general conditions as imposed in the above Consent to Establish within 30 days failing which Consent to Establish will be revoked.

24. That unit will obtain EIA from MoEF, if required at any stage.

25. In case of unit does not comply with the above conditions within the stipulated period, Consent to Establish will be revoked.

26. That unit will obtain consent to operate from the board before the start of product activity.

Specific Conditions

Other Conditions :

1. Unit will comply the conditions mentioned in the letter dated 25-10-2019 of CPCB regarding mechanism for Environmental management in compliance of Hon'ble NGT order dated 23-08-2019 in the matter of O.A. No. 1038/2018.

2. The unit will comply with the Directions dated 27-11-2020 issued by CPCB regarding to allow only those new industrial units in NCR-Delhi, which are using cleaner fuels, namely, natural gas (PNG/CNG), liquefied petroleum gas, bio-gas, propane, butane etc. The unit will comply CAQM Directions and will use only approved fuel. The unit will obtain EC as per policy, as and when applicable. The unit will obtain CTE expansion if unit will increase effluent quantity. The unit will use treated water partially in gardening/horticulture and partially for flushing only. The unit will discharge surplus treated water only in sewer and will obtain sewer connection. The unit will treat the domestic waste water as per discharge standards for Sewage Treatment Plants. The unit ensure to control the dust emission during construction phase and will provide proper sprinkling system through mobile tankers. The unit will develop green belt and will use treated water only. The unit will comply the CAQM directions issued time to time. The unit will comply the CAQM directions w.r.t DG sets issued time to time.

DINESH KUMAR
Digitally signed by DINESH KUMAR
Date: 2023.09.12 13:00:26 +05'30'

Regional Officer, Rohtak

Haryana State Pollution Control Board.

Directorate of Town & Country Planning, Haryana

Nagar Yojana Bhawan, Plot No.3, Sector-18A, Madhya Marg, Chandigarh, Phone: 0172-2549349
Web site tcpharyana.gov.in e-mail: tcpharyana7@gmail.com

FORM LC -V
(See Rule: 12)

License No. 157 of 2023

This license has been granted under the Haryana Development and Regulation of Urban Areas Act 1975 & the Rules 1976 made thereunder to One Height Developers Pvt. Ltd., Spice One Builders Pvt. Ltd. in collaboration with Spice One Builders Pvt. Ltd., 8-D, Hansalya, 15, Barakhamba Road, New Delhi-110001 for setting up of Affordable Residential Plotted Colony (under DDJAY Policy-2016) over an area measuring 15.8125 acres in the revenue estate of village Kheri Sadh, Sector-27A, District Rohtak.

1. The particulars of the land, wherein the aforesaid Affordable Residential Plotted Colony is to be set up, are given in the Schedule annexed hereto and duly signed by the Director General, Town & Country Planning, Haryana.

2. The Licence is granted subject to the following conditions:-

   i) That the Affordable Residential Plotted Colony will be laid out in conformation to the approved layout plan and development works will be executed in accordance to the designs and specifications shown in the approved plans.

   ii) That the conditions of the agreements already executed are duly fulfilled and the provisions of Haryana Development and Regulation of Urban Areas Act, 1975 and the Rules 1976 made thereunder are duly complied with.

   iii) That area coming under the sector roads and restricted belt/green belt, if any, which forms part of licensed area and in lieu of which benefit to the extent permissible as per policy towards FAR is being granted, shall be transferred to the Govt. within 30 days of approval of zoning plan.

   iv) That you shall maintain and upkeep of all roads, open spaces, public park and public health services for a period of five years from the date of issue of the completion certificate unless earlier relieved of this responsibility and thereupon to transfer all such roads, open spaces, public parks and public health services to the Govt. or the local authority, as the case may be, in accordance with the provisions of Section 3(3)(a)(iii) of the Haryana Development and Regulation of Urban Areas Act, 1975.

   v) That you shall construct portion of service road, internal circulation roads, forming the part of site area at your own cost and shall transfer the land falling within alignment of same to the Govt. u/s 3(3) (a) (iii) of the Haryana Development and Regulation of Urban Areas Act, 1975 within a period of 30 days from approval of zoning plan.

   vi) That you shall integrate the services with Haryana Shehari Vikas Pradhikaran services as and when made available.

   vii) That you have not submitted any other application for grant of license for development of the said land or part thereof for any purpose under the provisions of the Haryana Development and Regulation of Urban Areas Act, 1975 or any application seeking permission for change of land use under the provision of the Punjab Scheduled Roads and Controlled Area Restriction of Unregulated Development Act, 1963.

Director General
Town & Country Planning
Haryana, Chandigarh

For SPICE ONE BUILDERS PVT. LTD.

Authorised Signatory Director

viii) That you will transfer 10% area of the licenced colony to the Government for provision of community facilities as per policy dated 08.02.2016 as amended from time to time. This will give flexibility to the Director to work out the requirement of community infrastructure at sector level and accordingly make provisions. The same shall be transferred to the Government within 30 days of issuance of zoning plan. Alternatively, the said community site may also be developed as per policy dated 25.08.2022.

ix) That you have understood that the development/construction cost of 24 m/18 m major internal roads is not included in the EDC rates and they shall pay the proportionate cost for acquisition of land, if any, alongwith the construction cost of 24 m/18 m wide major internal roads as and when finalized and demanded by the Department.

x) That you shall obtain NOC/Clearance as per provisions of notification dated 14.09.2006 issued by Ministry of Environment & Forest, Govt. of India, if applicable before execution of development works at site.

xi) That you shall make your own arrangements for water supply, sewerage, drainage etc. to the satisfaction of DGTCP till these services are made available and the same is made functional from External Infrastructure to be laid by Haryana Shehari Vikas Pradhikaran or any other execution agency.

xii) That you shall obtain clearance from competent authority, if required under Punjab Land Preservation Act, 1900 and any other clearance required under any other law.

xiii) That the rain water harvesting system shall be provided as per Central Ground Water Authority Norms/Haryana Govt. notification as applicable.

xiv) That you shall use only LED fitting for internal lighting as well as campus lighting.

xv) That you shall convey the 'Ultimate Power Load Requirement' of the project to the concerned power utility, with a copy to the Director, within two months period from the date of grant of license to enable provision of site in licensed land for Transformers/Switching Stations/Electric Sub Stations as per the norms prescribed by the power utility in the zoning plan of the project.

xvi) That it will be made clear at the time of booking of plots/commercial space that specified rates include or do not include EDC/SIDC. In case of not inclusion of EDC/SIDC in the booking rates, then it may be specified that same are to be charged separately as per rate fixed by the Govt. You shall also provide detail of calculation of EDC/SIDC per Sqm/per sft. to the Allottees while raising such demand from the plot owners.

xvii) That you shall keep pace of development atleast in accordance with sale agreement executed with the buyers of the plots as and when scheme is launched.

xviii) That you shall arrange power connection from UHBVNL/DHBVNL for electrification of the colony and shall install the electricity distribution infrastructure as per the peak load requirement of the colony for which licencee shall get the electrical (distribution) service plan/estimates approved from the agency responsible for installation of external electric services i.e. UHBVNL/DHBVNL and complete the same before obtaining completion certificate for the colony.

xix) That you shall complete the project within seven years (5+2 years) from date of grant of license as per clause 1(ii) of the policy notified on 01.04.2016.

For SPICE DIVE BUILDCON PVT. LTD.

Authorised Signatory Director

xxi) That no clubbing of residential plots for approval of integrated zoning plan of two adjoining plots under same ownership shall be permitted.

xxii) That you will pay the labour cess as per policy instructions issued by Haryana Government vide Memo No. Misc. 1057-5/25/2008/2TCP dated 25.02.2010 as amended from time to time.

xxiii) That you shall submit compliance of Rule 24, 26, 27 & 28 of Rules 1976 & Section 5 of Haryana Development and Regulation of Urban Areas Act, 1975, and shall inform account number and full particulars of the scheduled bank wherein you have to deposit the amount received from the plot holders for meeting the cost of Internal Development Works in the colony.

xxiv) That no further sale has taken place after submitting application for grant of license.

xxiv) That you shall not give any advertisement for sale of plots/commercial area before the approval of layout plan.

xxv) That no provision of the Haryana Ceiling on Land Holding Act, 1972 has been violated due to purchase of acquired land.

xxvi) That the owner/developer shall integrate the bank account in which 70 percent allottee receipts are credited under Section-4(2)(l)(D) of the Real Estate Regulation and Development Act, 2016 with the online application/payment gateway of the Department, in such manner, so as to ensure that 10% of the total receipt from each payment made by an allottee is automatically deducted and gets credited to the EDC head in the State -treasury.

xxvii) That such 10% of the total receipt from each payment made by the allottee, which is received by the Department shall get automatically credited, on the date of receipt in the Government treasury against EDC dues.

xxviii) That such 10% deduction shall continue to operate till the total EDC dues get recovered from the owner/developer.

xxix) The implementation of such mechanism shall, however, have no bearing on EDC installment schedule conveyed to the owner/developer. The owner/developer shall continue to supplement such automatic EDC deductions with payments from its own funds to ensure that by the EDC installments that are due for payment that paid as per the prescribed schedule.

xxx) That you shall abide by the terms and conditions of policy dated 08.02.2016 (DDJAY) and other directions given by the Director from time to time to execute the project.

xxxi) That you shall execute the development works as per Environmental Clearance and comply with the provisions of Environment Protection Act, 1986, Air (Prevention and Control of Pollution of Act, 1981) and Water (Prevention and Control of Pollution of 1974). In case of any violation of the provisions of said statutes, you shall be liable for penal action by Haryana State Pollution Control Board or any other Authority Administering the said Acts.

xxxii) That you shall abide by all the provisions of Act no. 8 of 1975 and Rules framed thereunder as amended time to time.

xxxiii) That the provision of Real Estate (Regulation and Development) Act, 2016 and rules framed thereunder shall be followed in letter and spirit.

For SPICE ONE BUILDERS PVT. LTD.

Authorised Signatory Director

xxxiv) That you shall obey all the directions/restrictions imposed by the Department from time to time in public interest.

xxxv) That you shall not encroach the revenue rasta passing through the site, if any and shall not object for free movement.

3. That you shall be bound to adhere to the provisions of the sectoral plan.

4. The licence is valid up to 08/08/2028.

(T. L. Satyaprakash, IAS)
Director General,
Town & Country Planning
Haryana, Chandigarh

Dated: 09/08/2023.
Place:

Endst. No. LC-4040- JE (MK)-2023/ 26107 Dated: 10-08-2023

A copy along with copy of schedule of land is forwarded to the following for information and necessary action:

1. One Height Developers Pvt. Ltd., Spice One Builders Pvt. Ltd. in collaboration with Spice One Builders Pvt. Ltd., 8-D, Hansalya, 15, Barakhamba Road, New Delhi-110001 alongwith a copy of agreement, LC-IV B & Bilateral Agreement.
2. Chairman, Pollution Control Board, Haryana, Sector-6, Panchkula.
3. Chief Administrator, HSVP, Panchkula.
4. Chief Administrator, Housing Board, Panchkula alongwith copy of agreement.
5. Managing Director, HVPN, Planning Directorate, Shakti Bhawan, Sector-6, Panchkula.
6. Joint Director, Environment Haryana Cum-Secretary, SEAC, Paryavaran Bhawan, Sector -2, Panchkula.
7. Addl. Director Urban Estates, Haryana, Panchkula.
8. Administrator, HSVP, Rohtak.
9. Chief Engineer, HSVP, Panchkula.
10. Superintending Engineer, HSVP, Rohtak along with a copy of agreement.
11. Land Acquisition Officer, Rohtak.
12. Senior Town Planner, Rohtak alongwith layout plan.
13. District Town Planner, Rohtak along with a copy of agreement and layout plan.
14. Chief Accounts Officer O/o DGTCP, Haryana, Chandigarh along with a copy of agreement.
15. Nodal Officer (Website) to update the status on the website.

(Divya Dogra)
District Town Planner (HQ)
For Director General, Town & Country Planning
Haryana Chandigarh

For SPICE ONE BUILDERS PVT. LTD.

Authorised Signatory

To be read with License no. 157 of 2023
dt.:-19/12/2023

Detail of land owned by One Height Developers Pvt. Ltd.

Village	Rect. No.	Killa No.	Area (K-M)
Kheri Sadh	37	8/2	2-14
		13/2	0-7
		13/3	1-13
		14/3	0-8
		9	8-0
		10	8-0
		11/1	6-4
		12/1	6-4
	38	6	8-0
		7	8-0
		14/1	6-4
		15/1	6-4
		Total	**61-18**

Detail of Land owned by Spice one Builders Pvt. Ltd:

Village	Rect. No.	Killa No.	Area (K-M)
Kheri Sadh	38	1	8-0
		2	8-0
		3/1	6-7
		9	8-0
		10/1	0-8
		8/2	6-5
	15	22	12-4
		23/1	8-13
		21min	6-15
		Total	**64-12**

Grand Total 126K-10M OR 15.8125 Acres

Note:-Killa no. 38//6 min (3-0-3), 15//23/1 min (4-1-1), 22 min (2-12-3), 21 min (2-1-0), 38//1min (2-14-1) are under mortgage.

Director General
Town & Country Planning
Haryana, Chandigarh

SERVICE ESTIMATE, DESIGN REPORT AND CALCULATION OF INTERNAL DEVELOPMENT WORKS

FOR

Affordable residential plotted colony (Under DDJAY-2016) for an Area measuring 15.8125 Acres falling in Revenue Estate of Village Kheri Sadh, Sector-27A, Tehsil Sampla, District Rohtak being developed by M/S Spice One Builders Pvt. Ltd. in collaboration with M/S One Height Developers Pvt. Ltd.

For SPICE ONE BUILDERS PVT. LTD

Authorised Signatory / Director

The layout plan for an area measuring 15.8125 Acres, has been approved under the Deen Dayal Jan Awas Yojna, and has been sanctioned by DTCP-Haryana with license No. 157 of 2023. This report is for the service estimate for the Affordable residential plotted colony falling in revenue estate of Village Kheri Sadh, Sector-27A, Tehsil Sampla, District Rohtak being developed by M/s Spice One Builders Pvt. Ltd. in collaboration with M/s One Height Developers Pvt. Ltd. This report has been prepared with the following provisions as under:

1. **WATER SUPPLY**

The source of water supply in this area is by HSVP. It has been proposed to construct underground tanks of capacity as per attached details and to location for domestic purpose and for fire protection. The underground tanks will be fed from the HSVP-based supply, which will feed O.H. tanks on the roof of the building and has been designed as per the Hazen Williams formula. Presently there is proposed / under execution HSVP W/S in this area. However, the provision of tube wells has been taken due to non-availability of water but after getting the approval from the competent authority through tube wells / tankers / any other approved source till HSVP W/S will be made available. The proposed tube well shall be ~~510~~ 300mm bore drilled with direct / reverse rotary rig and installed with ~~80~~ 100mm i/d housing pipe and ~~50~~ 80mm i/d slotted tube as strainer, hence the provision of 9 Nos. Tube Wells has been taken in this estimate.

DESIGN

The scheme has been designed for population of 3834 persons and considering @ 13.5 persons / units for Affordable Residential Plotted Colony and other provision etc. The combined quantum of water supply (domestic + flushing) per head / day has been taken as 155.25 Liters per head per day as per design calculation.

PUMPING EQUIPMENTS

It has been proposed to install the pumping set as described with standby of equal capacity. The provision for standby generating set has also been provided in case of any time electricity failure. Generator will be provided separately or added to the capacity of main generator.

2. **SEWERAGE**

The scheme is designed for sewer connecting to the STP and bypass connection to HSVP Sewerage scheme. The sewer lines have designed for three times average D.W.F in relation to water supply demand. It has assumed that about 80% of the domestic and flushing water supply shall find its way into the proposed sewer. Sewer lines shall be running by gravity and discharge to STP proposed.

Treated water will be used for Irrigation & Flushing purpose (through recycling) under the pipe line system.

3. **STORM WATER DRAINAGE**

It has been proposed to lay R.C.C Np3 pipes with required number of manholes for disposal of storm water, which will be connected to the HSVP drain. The intensity of rain fall has been taken as 6.00mm per hour. A minimum size of 400mm i/d R.C.C Np3 pipe for storm water drain will be provided and designed as per manning's formula. Necessary provision of rainwater harvesting arrangement has also been taken in this estimate.

4. **ROADS**

Road, Parking and Pavement have been provided to above areas and estimate is prepared as revised specifications adopted by HSVP.

5. **STREET LIGHTING AND ELECTRIFICATION: -**

Provision for external lighting, electrification and ESS of proposed area has been made.

6. **HORTICULTURE: -**

Estimate and details of plantation, landscaping, signage etc. have been included.

7. **FIRE FIGHTING: -**

Provision of Fire Fighting system has been made.

8. **SPECIFICATIONS**

The work will be carried out in accordance with the standard specifications of PH as laid down by the Haryana Government / HSVP.

9. **RATES**

The estimate has been based on the present market rates.

10. **COST**

1495.80

The total cost of the scheme including the cost of all services works out to Rs. ~~1319.92~~ Lacs including 3% contingencies and 49% departmental charges + Price escalation and cost comes out to Rs. ~~83.473~~ 94.596 Lacs per acre.

(Authorized Signatory)

For SPICE ONE BUILDERS PVT. LTD.

Authorised Signatory/Director

1. DESIGN CALCULATION: -

Total Area of plot	= 15.8125 Acres
Proposed Area Under Plots	= 8.319 Acres or 33667.21 Sqm
Proposed Commercial Area	= 0.631 Acres or 2553.65 Sqm
Proposed Community	= 1.581 Acres or 6399.75 Sqm
ESS Guards and Mtc. Staff	= 1 Nos.
Proposed Plots	= 284 Plots

I) Water Requirement: -

• Total Plots	= 284 Plots
Total Population @ 13.5 Persons/Plot	= 3834 Persons
@155.25 LPCD	= 5,95,228.50 LPD
• Commercial area	= 0.631 Acres or 2553.65 Sqm
@ 32000 Ltr/ Acres	= 20,192.00 LPD
Community Building	= 1.579 Acres or 6390.21 Sqm
@ 25000 Ltr/ Acres	= 39,475.00 LPD
Total	**= 6,54,896.00 LPD Or 654.89 KLD**
	Say 654.90 KLD

II. FIRE DEMAND

(i) Population 100|3.834/1000	= 3834 Persons
~~(p) ½ x 100/1000 = (1.944) ½ x 100~~	= 383.40/3 = 127.80 KLD
(Considering 1/3 ~~of total population~~) for UGT	
Add. @ ~~15%~~ 20% extra for margin factor	= ~~6.39~~ KLD 19.58
Total	= ~~134.19~~ KLD 84.85 KL
Say	= ~~135.00~~ KLD 90 KL

III. Garden Irrigation Requirement (For Total Area) **= 30.11 KLD**

IV. Total Water Requirement for UGT

(Excluding Fire Demand)

Hence Domestic Water Requirement (~~60%~~) 65%	= 654.90 x ~~60%~~ 65% = ~~392.94 KLD~~ 425.68 Say=426
Hence Flushing Water Requirement (~~40%~~) 35%	= 654.90 x ~~40%~~ 35% = ~~261.96 KLD~~ 229.21
UGT Capacity (for Domestic Use) = ~~24~~ 12 hrs. storage	
~~(Considered 15% supply wastage)~~	= ~~500~~ 270 K.L. for Domestic (including provision for future expansion)
@ 60% = 430 x 60% = 258 KL	= ~~262~~ 230 K.L. for Flushing
Say = 270 KL	

But it is proposed to construct an UGT i.e. ~~500 K.L.~~ 360 KL in ~~two~~ three compartments ~~for domestic use~~ and ~~265~~ 270 KL K.L. for non-potable water in two compartments (~~at STP~~) and ~~135~~ 90 K.L. for firefighting purposes for UGT in ~~two~~ one compartments as shown location in the plan.

Total Capacity of UGT	= ~~500 + 135~~ 270 + 90 = 360
	= ~~635.00 KLD~~ 360 KLD

Total Storage Requirement for Flushing and irrigation at STP (~~262~~ 230+30.25) = ~~292.25 KLD~~ 260.25 KL
(Flushing ~~262~~ 230 K.L. + Irrigation 30.25 KLD = ~~292.25 KLD Says 295 KLD~~) 265 KLD

Cap. of flushing tank @ 60% = 159 Say = 170 KL

V. Tube Well

	For UGT
a) Yield	= ~~25~~ 22.50 K.L. / Hr.

For SPICE ONE BUILDERS PVT. LTD.

Authorised Signatory

b) Working Hour per day = ~~20~~ 16 Hr. / Per Day
c) Total water demand = ~~500 M3/Day~~ 655 KLD / daily
d) Number of tube well required = ~~1.00 Nos~~ 655 / 22.50 / 16 = 1.82
(Water Demand / Discharge / Hr. working Per day) Add 10% extra = 1.82 + 10% = 2.00

Water to the proposed development is to be supplied by HSVP. Consider 2 Nos. T.W. to be installed only for temporary provision till supply by HSVP. The same has been taken in the estimates, however, it shall be installed only in the case of non-availability of water supply by HSVP and after getting the requisite approvals from the competent authority.

VI) Pumping Machinery for Tube wells

a) Gross Working Head = ~~80~~ 90 Mtr
b) Average fall in S.L = 2 Mtr
c) Depression Head = ~~6~~ 4 Mtr
d) Friction loss in main = ~~10~~ 6 Mtr
Total = ~~98~~ 102 Mtr
e) Discharge = ~~25000~~ 22500 LPH = 375 LPM Say 400 LPM
(Or ~~6.94 LPS Say 7.0 LPS~~)

f) Horse Power
HP = ~~(7.0 x 98) / (75 x 0.60)~~ = ~~15.24~~ 14.16 H.P.
22500 x 102 / 60 x 60 x 75 x 0.60
Say = 15.0 H.P.

It is proposed to provide 1 No. pumping set of ~~7.00 LPS~~ 400 LPM discharge at ~~98~~ 102 Mtr head (1W)

VII) Boosting Machinery for domestic water for UGT

Total Water Requirement = ~~500.00~~ 430 **KLD**
Pumping per hour @ ~~10~~ 8 hr. pumping / day = ~~500~~ 430 / ~~10~~ 8 KL / hr.
= ~~50.00~~ 53.75 KL / hr.
= ~~833.33~~ 895.83 lpm = ~~13.88~~ 14.93 lps
~~Say 2 No. 7.00 lps each~~ 900 LPM / hour

Gross working head — For UGT
- Suction lift = ~~5.00~~ mts. 4.00 mtr.
- Frictional loss in mains & specials = ~~10.00~~ mts. 6.00 mtr.
- Clear Head required = 30.00 mts.

Total = ~~43~~ 48.00 mts.
Say = ~~45~~ 48.00 mts.
Pump HP = ~~(7.00x45) / (75x0.60)~~ = 900 x 48 / 60 x 75 x 0.60
= ~~7.00 H.P.~~ 13.33
Say = ~~7.00 HP~~ 15.00 HP

It is proposed to provide 3 Nos. of pumping set of ~~7.00 lps~~ 900 LPM discharge at ~~45~~ 48 mts Head each (~~2~~W + 1S) for UGT.

VIII) Boosting Machinery for flushing water at STP

Total Water Requirement = ~~262~~ 265 **K.L.D**
Pumping per hour @ 8 hr. pumping / day = ~~262~~ 265 /8 KL / hr.
= ~~32.75~~ 33.125 KL / hour
= ~~545.83~~ 552.08 lpm = ~~9.09 lps.~~ 600 LPM / hour
~~Say 2 No. 5.0 lps each~~

Gross working head
- Suction lift = ~~5.00~~ mts. 4.00 mtr

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Authorised Signatory / Director

- Frictional loss in mains & specials	= ~~10.00~~ mts. 6.00
- Clear Head required	= 30.00 mts.
Total	= ~~45.00~~ mts. 40 mtr
Say	= ~~45.00~~ mts. 40 mtr
Pump HP	= ~~(5.0 x 45) / (75 x 0.60)~~ 600 x 40 / 60 x 75 x 0.60
	= ~~5.0HP~~ 8.88
Say	= ~~5.0 HP~~ 10 HP

It is proposed to provide ~~3~~ 2 Nos of pumping set of ~~5.0 lps~~ 600 LPM discharge at ~~45~~ 40 mts Head each (~~2W~~ 1W + 1S)

IX) Boosting Machinery for Irrigation water

Total Water Requirement	**= 30 KLD**
Pumping per hour @ 5 hr. pumping / day	= 30 /5 KL / hr.
	= 6.00 KL / hr.
	= 100.00 lpm = 1.66 lps
Say	= 2.0 LPS
Gross working head	
- Suction lift	= 5.00 mts.
- Frictional loss in mains & specials	= 5.00 mts.
- Clear Head required	= 25.00 mts.
Total	= 35.00 mts.
Say	= 35.00 mts.
Pump HP	= (2.0 x 35) / (75 x 0.60)
	= 2.0 HP
Say	= 2.0 HP

It is proposed to provide 2 No. of pumping set of 2.0 lps discharge at 35 mts Head each (1W + 1S)

X) DG Set for plumbing.

DG Set Requirement	**For UGT**
Submersible Pump (~~1 x 15.5~~) 2 x 15.00	= ~~15.50 HP~~ 30.00 HP
Domestic Pump (~~2 x 7.0~~) 1 x 15.00	= ~~14.00 HP~~ 15.00 HP
~~Streetlight and others etc.~~	= ~~5.50 HP~~ 10.00 HP
Total pump load	= ~~35.00 HP~~ 55.00 HP
	= ~~35.00~~ 55 x 0.746 x 1.50 = 61.54 KVA
	= ~~39.165 K.W~~ Lighting 15.00 KVA
~~Total DG capacity~~	= ~~1 No. 40 KVA~~ Add 10% extra = 76.54 / 7.65 / 84.19 Say 90 KVA

~~DG Set for S.T.P. (for flushing & Irrigation + Surplus Treated Water)~~

~~Requirement = 2 X 5.00 HP + 2.0 HP = 12.0 HP (12.0 X 0.746 X 1.50) = 13.42 KVA~~

~~Say = 20.00 KVA~~

~~Hence it is proposed to provide 1 No. D.G. Set of 40 KVA + 20 KVA = 60 KVA~~

FLOW TO SEWAGE TREATMENT PLANT

Total Water Requirement = (~~432~~ 655 KLD for domestic & ~~270 KLD for flushing~~)

i) 80% of total Domestic Water Demand = 80% of ~~392.94~~ 655 KLD = ~~314.352 KLD~~ = 524.00

~~ii) 80% of total Flushing Water Demand = 80% of 261.96 KLD = 209.568 KLD~~

Add 5% extra

Total = ~~523.92 KLD~~

~~Considering future expansion~~ = ~~26.10 KLD~~ 26.20 / 550.20

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G. Total = 550.00 KLD

~~Say 480 KLD~~

Proposed STP Capacity = 550 KLD Or 0.55 MLD

(Authorized Signatory)

For SPICE ONE BUILDERS PVT. LTD

Authorised Signatory Director

SUMMARY OF DESIGN REQUIREMENT

S. No.	Description	Qty	Unit
1	Total Population	3834	Persons
2	Total Water Requirement (Domestic)	655 ~~500~~	KLD
3	Total Water Requirement (Flushing)	260 ~~262~~	KLD
4	Total Water Requirement (Horticulture)	30.00	KLD
5	U. G Tank (Domestic - ~~250X2=500 KLD~~) 135x2=270+90	3 ~~2~~	KLD ~~No.~~
6	No. of Domestic WS pumps UGT	1+1 ~~2+1~~	Set
7	No. of Flushing pumps	(+1) ~~2+1~~	No.
8	No. of submersible pumps	3	No.
9	Generating sets ~~(60+20=80 KVA)~~ 20+20+50	1	90 KVA ~~60+20=80 KVA~~
10	STP (550 KLD)	1	No.

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Authorised Signatory

FINAL ABSTRACT OF COST

SR.	SUB WORK	DESCRIPTION	AMOUNT	
1	SUB WORK NO. I	WATER SUPPLY SCHEME	~~256.70~~	306.12
2	SUB WORK NO. II	SEWERAGE SCHEME	~~188.92~~	218.44
3	SUB WORK NO. III	STORM WATER DRAINAGE	~~82.95~~	141.58
4	SUB WORK NO. IV	ROAD AND ~~FOOTPATH~~ Parking	~~284.01~~	338.86
5	SUB WORK NO. V	STREET LIGHTING	~~60.67~~	60.67
6	SUB WORK NO. VI	HORTICULTURE (PLANTATION & ROAD SIDE TREES)	~~25.08~~	26.30
7	SUB WORK NO. VII	MTC. OF SERVICES & RESURFACING OF ROADS	~~421.56~~	403.81
		TOTAL	~~1319.92~~	1495.80

Cost Per Acre = ~~1319.92~~ 1495.80 Lacs/15.8125 = Rs. ~~83.473~~ 94.596 Lacs Per Acre

For SPICE ONE BUILDERS PVT. LTD.

AUTHORISED SIGNATORY

Authorised Signatory Director

Executive Engineer,
HSVP Division No. I
Rohtak

Checked subject to Comments
In forwarding letter No. 2484/17
Dt. 20/11/2023 and notes
attached with the estimate

Superintending Engineer
HSVP Circle, Rohtak

Executive Engineer (M)
for Chief Engineer-I
HSVP, Panchkula

Director
Town & Country Planning
Haryana, Chandigarh

Tel. : 2570982
Toll Free No. : 1800-180-3030
Website : www.hsvp.in
Email : cencrhuda@ gmail.com

हरियाणा शहरी विकास प्राधिकरण
HARYANA SHEHARI
VIKAS PRADHIKARAN

Address: C-3, HSVP , HQ Sector-6
Panchkula

C.E.-I-No. 24417
Dated: 20/11/2023

Annexure-A

SUB:- Approval of service plan estimate for Affordable Residential Plotted Colony under DDJAY-2016 over an area measuring 15.8125 acres (license no. 157 of 2023 dated 10.08.2023) falling in the revenue estate of Village Kheri Sadh, Sector-27A, Tehsil Sampla, District-Rohtak, Haryana being developed by M/s Spice One Builder Pvt. Ltd. in collaboration with M/s One Height Developers Pvt. Ltd.

Technical note and comments:-

1. All detailed working drawings would have to be prepared by the colonizer and got approved from Chief Engineer HSVP so that these are adopted accordingly for integrating the internal services proposal with the master proposals of town.
2. The correctness of the levels will be the sole, responsibility of the colonizer for the integration of internal proposals, with the master proposals, of town and will be got confirmed before execution of work.
3. The material to be used shall the same specifications as are being adopted by HSVP and further shall also confirm to such directions, as issued by Chief Engineer, HSVP from time to time.
4. The works shall be carried out according to Haryana PWD specification or such specifications as are being followed by MCF /HSVP. Further it shall also confirm to such other directions, as are issued by Chief Engineer, HSVP from time to time.
5. The colonizer will be fully responsible to meet the demand of water supply and allied services till such time these are made available by State Government/ MCF all link connections with the State Government/ MCF system and services will be done by the colonizer. If necessary extra tube-wells shall also be installed to meet extra demand of water beyond the provision made in the estimate.
6. Structural design & drawings of all the structures, such as pump chamber, boosting chamber, RCC OHSR, underground tanks quarters, manholes chamber, sections of RCC pipes sewer and SW pipes, sewer, ventilating shafts for sewerage and Masonry Ventilation Chamber for Chamber for storm water drainage, temporary disposal/ arrangement etc. will be as per relevant I.S codes and PWD specifications; colonizer himself will be responsible for structural stability of all structures.
7. Potability of water will be checked and confirmed and the tube-wells will be put into operation after getting chemical analysis of water tested.
8. Only D.I pipes in water supply and HDPE pipe of PE-100 & PN-6 for flushing system/ irrigation purposes will be used.
9. A minimum of 100, 150mm (DI K-7), 200, 250 & 300mm i/d SWP & 400mm id RCC NP-3 pipes will be used for water supply, sewerage and storm water drainage respectively.

Tel. : 2570982
Toll Free No. : 1800-180-3030
Website : www.hsvp.in
Email : cencrhuda@ gmail.com

हरियाणा शहरी विकास प्राधिकरण
HARYANA SHEHARI
VIKAS PRADHIKARAN
HSVP

Address: C-3, HSVP , HQ Sector-6
Panchkula

10. Standard X-section for S.W. pipes sewer, RCC pipes sewer etc. will be followed as are being adopted in Haryana Public Health Engineering Deptt. or HSVP. If needed, the same may be sought by the colonizer from concerned Executive Engineer of HSVP.
11. The X-section, width of roads, will be followed as approved by the Chief Town Planner, Haryana, Chandigarh. The kerbs and channels will also be provided as per approved X-section and specifications. If needed, the same may be sought by the colonizer from concerned Executive Engineer of HSVP.
12. The specifications for various roads will be followed as per IRC/MORTH specifications.
13. The wiring system of street lighting and specifications of street lighting fixture will be as per relevant standards.
14. This shall confirm to such other conditions as are incorporated in the approved estimate and the letter of approval.
15. The colonizer will have to pump sewerage and storm water at their own cost if required. The formation levels of internal roads should be higher than the Sector dividing road.

for **Executive Engineer (M),**
Chief Engineer-I, HSVP,
Panchkula.

SUB WORK NO. 1 (Abstract of cost) **WATER SUPPLY SCHEME**

SR.	SUB WORK	DESCRIPTION	AMOUNT in Lacs	
1	Sub Head No. 01	Head Works	~~69.15~~	87.75
2	Sub Head No. 02	Pumping Machinery	~~31.30~~	35.60
3	Sub Head No. 03	Water Supply Distribution & Rising main pipe	~~58.69~~	50.65
4	Sub Head No. 04	Irrigation / Flushing	~~3.63~~	25.47
~~5~~	~~Sub Head No. 05~~	~~Extrnal Fire Hydrant~~	~~4.49~~	
		TOTAL	~~167.26~~	199.47
		Add 3% contingency & P.H. Services	~~5.02~~	5.98
		Total	~~172.28~~	205.45
		Add 49% Department charges + Price Escalation	~~84.42~~	100.65
		G. Total	~~256.70~~	306.12
		Say in Lacs	~~256.70~~	

(C.O. to Final Abstract Of Cost)

SUB WORK NO. I **WATER SUPPLY**
Sub Head No. 01 **Head Works**

Sr. NO.	Description	Amount in Rs.
1	Construction of RCC underground clear water storage tank. ~~635~~ 360 KLD @ Rs. 5500 ~~4500~~/- per K.L.D	~~28,57,500~~ 1980000
2	S.T.P. Storage capacity for flushing and irrigation ~~295~~ 170 KLD @ Rs. ~~4500~~ 5500/- per K.L.D	935000 ~~13,27,500~~
3	Provision for construction of Boosting Station 1 Nos @ Rs. ~~650000~~ 400000/- each	400000 ~~6,50,000~~
4	Boring and installing tube well reverse rotary rig complete with pipes and strainer to a depth of about 120 Mtr complete in all respect. 1 Nos @ Rs. ~~700000~~ 300x200 mm with direct 1000000/- Each	~~7,00,000~~ 2000000
5	Provision for Designing, Supply & Erection of DG set of KVA capacity with noise controlled devices acoustic of suitable rating, testing and commissioning of diesel generating set complete earthing safety equipments fenced enclosure with platform for DG set complete as per specifications and directions of Engineer in chief including cost of construction of foundation of Genset. ~~1 No. @ Rs. 5.00 Lacs Each~~ 20 KVA = 2 No. @ Rs. 3.80 Lac 50 KVA = one @ Rs - 6.80 Lac	~~5,00,000~~ 760000 6000000
6	Provision for construction of tube well chamber ~~size 1.50m x 1.50m~~ 4.90 x 4.25 complete in all respect. ~~2~~ 4 Nos @ Rs. ~~400000~~ 200000/- each	~~1,00,000~~ 800000
~~7~~	~~Construction of 1 No. 440 sft. staff quarter for chowkidar and WPO for operating of boosting station 1 Nos @ Rs. 3.0 Lacs Each~~	~~3,00,000~~
8	Constrruction of boundary wall around the site of boosting station 1 Nos.@ Rs. 1 Lacs Each	1,00,000
9	Provision for electrical connection for ~~Boosting Station 1 Nos. @ Rs. 1 lacs each~~ tube-well including electric fittings for T.W chambers including transformer 1.00	~~1,00,000~~ 500000
10	Provisions for providing and fixing of chlorination plant 1 Nos. @ Rs. ~~0.5~~ Lacs Each	~~50,000~~ 100000
11	Add for Pipe ~~and~~ valves & Specials	150000 ~~50,000~~
12	Provision for unforeseen items & Carriage of material	1,00,000
13	Provision of ~~specials for tube well & rising main to UGT L.S.~~ rising main from T.W to UGT	150000 ~~80,000~~
	Total	~~69,15,000~~ 87.75
	Say in Lacs	~~69.15~~ 87.75 Lacs

(C.O. to Abstract of cost of Sub Work No. I)

For SPICE ONE BUILDERS PVT. LTD

SUB WORK NO. 1 **WATER SUPPLY**
Sub Head No. 02 **Pumping Machinery**

Sr. NO.	Description	Amount in Rs.
1	Providing and installing Hydro pneumatic pumping set of following capacities for domestic water Supply with specials 15.00 HP	600000
900 LPM	7.00 lps at 45 mts head - 3 No. (2W+1SB) - @ Rs. 1,50,000/- each Set (7.00HP)	4,50,000
2	Providing and installing Hydro Pneumatic pumping set of following capacities for Flushing water supply & irrigation etc. 150000 10 HP	400000
i	5.0 lps at 45 mts head - 3 No. (2W+1SB) @ Rs. 1,20,000/- 1 Set (5HP each) 600 LPM at 40 mts	3,60,000
ii	2.0 lps at 35 mts head - 2 No. (1W+1SB) @ Rs. 75,000/- 1 Set (2HP each)	1,50,000
3	Providing and installing Submersible pump for tube wells with specials 400 LPM at 102 mts 250000 15.00 HP	500000
	7 lps at 90 mts head - 1 Nos (1W) @ Rs. 3,50,000/- 1 Set (15.5HP)	3,50,000
4	Provision for ESS (Electric Panel Foundation) L.S.	1,50,000
5	Provision for D.G. Set for stand by arrangement for all machinery = 2 No. 40+20 = 60 KVA @ Rs. 12,00,000/- each	12,00,000 770000
	1 No. 50 KVA @ Rs. 6.00 lacs	600000
6	Provision for making foundations & erection of pumping machinery L.S.	90,000
		100000
7	Provision for pipes, valve & specials inside boosting chamber L.S.	80,000
8	Provision for electric services connection including electric fittings for boosting chambers and pump chamber etc.	1,00,000
		150000
9	Provision for carriage of materials and other unforeseen items L.S.	1,00,000
10	Provision for making connection with HSVP line	1,00,000
	Total Rs -	31,30,000 35.60
	Say in Lacs	31.30 35.60

(C.O. to Abstract of cost of Sub Work No. I)

SUB WORK NO. 1 **WATER SUPPLY**
Sub Head No. 03 **Water Supply Distribution & Rising Main Pipe**

Sr. NO.	Description	Amount in Rs.	
1	Providing, laying, jointing & testing pipe lines including cost of excavation etc. complete in all respects 1700 1460		
i) 105	~~80~~mm dia D.I. Pipe ~~243~~ Mtr @ Rs. ~~1300~~/- Per Mtr	~~9,65,900~~	24.82
150	~~100~~mm dia D.I. Pipe ~~200~~ Mtr @ Rs. ~~1500~~/- Per Mtr	~~3,00,000~~	9.18
	450 2040		
~~2~~	~~Providing, laying, jointing & testing pipe lines including cost of excavation etc. complete in all respects~~		
~~i)~~	~~50mm dia HDPE Pipe 1918 Mtr @ Rs. 820/- Per Mtr~~	~~15,72,760~~	
~~ii)~~	~~65mm dia HDPE Pipe 2422 Mtr @ Rs. 1020/- Per Mtr~~	~~24,70,440~~	
3	Providing and fixing sluice valve including cost of surface box and masonry chamber etc. complete in all respect		
	~~a) 65mm i/d 10 No. @ Rs. 8500/- each~~	~~85,000~~	
	~~b) 80mm i/d 05 No. @ Rs. 9000/- each~~	~~45,000~~	1.20
	100 i/d 10nos @ 12000/-		
4	Providing and fixing indicating plates for sluice valve 15 No.@ Rs. 2000/-	~~30,000~~	0.30
5	Provision for fire fighting including F.H pipe etc. Comp.		5.03
6 ~~5~~	Provision for carriage of materials LS	~~1,00,000~~	1.00
7 6	Provision for cutting the road and making good the same	~~1,00,000~~	1.00
8 ~~7~~	Provision for providing and fixing of fire hydrants	~~1,00,000~~	1.00
9 ~~8~~	Provision for unforeseen items LS	~~1,00,000~~	1.00
10	Prov. ~~for~~ rising main from T.W to UGT & main to UGT		6.12
	150mm i/d 300 R/r **Total** @ Rs. 2040/-	~~58,69,100~~	50.65
	Say in Lacs	~~58.69~~	

(C.O. to Abstract of cost of Sub Work No. I)

For SPICE ONE BUILDERS PVT LTD

SUB WORK NO. 01 **WATER SUPPLY**
SUB HEAD NO. 04 Flushing **IRRIGATION**

Sr. NO.	Description	Amount in Rs.
	HDPE pipe PE-100 PN-06	
1	Providing, Laying, jointing and testing ~~UPVC pipe lines suitable for 10 kg pressure~~ including cost of fittings, valves, connection etc. complete in all respect 90 mm dia HDPE 140mtr @ Rs 1000/- 80 mm dia HDPE 1400 mtr @ Rs 1000/-	~~25,000~~ 572000 — 1400000 —
a)	~~25mm dia - 50M @ Rs. 500/- Per Mtr -~~	~~25,000~~ 160000 —
2	Providing and fixing 25mm dia, Irrigation hydrant valve complete in all respect ~~04~~ 6 Nos @ Rs. ~~10000~~ 3500/- each - need to check nos.	~~40,000~~ 21000 —
3	Provision for ~~carriage of materials LS~~ HDPE sluice valve 1 one. @ Rs 100000/- 6	~~50,000~~ 100000 —
4	Provision for indicating plate with safety box etc. complet in all respect ~~04~~ Nos @ Rs. 2000/- each	~~8,000~~ 12000 —
5	Provision for road cutting and making it condition as original L.S.	1,00,000
	Carriage of material 2	150000 —
6	Provision for unforseen items L.S.	~~1,00,000~~
8	Providing and fixing Air Valves and secure valves marked with IS 14845 including carriage, loading, unloading stacking, handling, rehandling etc., drilling, tapping, screwing in valves connections complete in all respects to the satisfaction of Engineer in charge including cost of brick masonry chambers etc. complete in all respect. 4 Nos. @ Rs. ~~10000.00~~ 8000 Each	~~40,000~~ 32000 —
	Total	~~3,63,000~~
	Say in Lacs	~~3.63~~

Rs — 2547000 /—
Say = 25.47 Lacs

(C.O. to Abstract of cost of Sub Work No. I)

For SPICE ONE BUILDERS PVT. LTD.

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SUB WORK NO. II **SEWERAGE SCHEME**

Sr. NO.	Description	Amount in Rs.
1	Providing, jointing, cutting and testing stoneware pipe grade A and lowering into trenches including cost of excavation, bed concrete, cost of manholes etc. complete	2626500
	b) SW Pipe 200mm i/d avg. depths 0 - 2.00M (~~785~~ 1545) M @ Rs. 1700/- per Mtr	~~13,34,500~~ 320000
	c) SW Pipe 250mm i/d avg depth ~~2.00~~ 2.40 M 160 M @ Rs. ~~2480~~ 2000/- per Mtr -	~~3,96,800~~ 324000
	d) SW Pipe 300mm i/d avg depth ~~2.75~~ 3.40 M 135 M @ Rs. ~~3000~~ 2400/- per Mtr	~~4,05,000~~
2	Providing, laying, jointing & testing pipe lines including cost of excavation etc. complete in all respect - ~~150~~mm dia ~~HDPE~~ DI 250 pipes (overfow for STP)	1362900
	a) 150MM i/d ~~HDPE Pipe~~ DI 3540 - 385 M @ Rs. ~~1620~~/- Per Mtr	~~6,23,700~~
		100000
3	Provision of lighting and watching etc.	~~50,000~~
4	Provision for cartage of material and unforseen items	3,00,000
5	Provision for making connection with HSVP	2,00,000
6	Provision for construction of Sewerage Treatment Plant (STP) including the cost of tertiary treatment level with recycling storage tank and machinery with all arrangement etc. complete in all respect. 550 KLD @ 16000/- KLD or (0.55 MLD) Capacity L.S.	88,00,000
		150000
7	Provision for road cuts & making the same in good condition LS	~~1,00,000~~
8	~~Provision for providing and fixing of air vent shaft on suitable sewer line/ palace as per public health standard LS~~	~~2,00,000~~
		150000
9	Provision for caution board/ temporary timbering and shoring LS	~~1,00,000~~
	Total	~~1,23,10,000~~ 14233400
	Add 3% contingency & P.H. Services	~~3,69,300~~ 427002
	Total	~~1,26,79,300~~ 14660402
	Add 49% Department charges + Price Escalation	~~62,12,857~~ 7183597
	~~G. Total~~	~~1,88,92,157~~ 21843991
	~~Say in Lacs~~ Total	~~188.92~~

Say = 218.44 Lacs

(C.O. to Final Abstract of Cost)

For SPICE ONE BUILDERS PVT. LTD.

SUB WORK NO. III **STORM WATER DRAINAGE SCHEME**

Sr. NO.	Description	Amount in Rs.
1	Providing, lowering, laying, jointing RCC pipe class Np3 with cement joint, manholes, specials into trenches including manholes, chambers etc. excavation, backfilling and disposal of surplus earth complete in all respect	4375000
	RCC Np3 pipe 400mm i/d = ~~1650~~ 1750 M @ Rs. 2500/- Per Mtr	~~41,25,000~~
2	Provision for Rain Water Harvesting arrangement including the cost of screening chamber and pit with all type of pipes and other material etc. complete in all respect as per standard drawing and bore upto requirement of site etc. ~~8~~ 8 Nos RWH @ Rs.3,50,000/- each	2800000
		550000
3	Provision for road gulley & pipe with connection	~~5,00,000~~
		50000
4	Provision for lighting and watching	~~30,000~~
5	Provision for caution board/ timbering and shoring	1,00,000
6	~~Provision for cartage of material~~	~~50,000~~
		800000
6 7	Provision for construction of temporary dissposal works	~~2,00,000~~
		150000
7 ~~8~~	Provision for roads cuts & making the same in good condition	~~1,00,000~~
8 ~~9~~	Provision of sewer connection with external sewer line/manhole of hsvp	2,00,000
9 ~~10~~	Provision for carriage of material and unforseen items 200000	~~1,00,000~~
	Total	~~54,05,000~~ 9225000
	Add 3% contingency & P.H. Services	~~1,62,150~~ 276750
	Total	~~55,67,150~~ 9501750
	Add 49% Department charges + Price Escalation	~~27,27,904~~ 4655585
	G. Total	~~82,95,054~~
	Say in Lacs Total =	~~82.95~~ 14157601
	(C.O. to Final Abstract of Cost)	

Say = 141.58 Lac

FOR SPICE ONE BUILDERS PVT. LTD.

AUTHORISED SIGNATORY

Sub Work No. IV **ROAD AND FOOTPATH**

S. No.	Description	Unit	Qty	Rate (In Rs.)	Amount (In Rs.)
1	Clearing and grubbing roads land including uprooting vegetation, grass, bushes, shrubs, saplings and trees cut and disposable of unserviceable materials and stacking of servicable material to be used or auctioned, up to a lead of 1000 meters including removal and disposal of top organic clause 201 of MORT&H specification. 15.81 Acre@ rs. 20000 per Acre	Per Acre	15.81	20000	316200
2	Construction of Embankment CBR 8% (for new roads/raising berms etc.) with approved material obtained from borrow pits, Excluding compensation of Earth with all leads and lift transporting to site, spreading, grading to required slope and compacting to meet requirement of table 300-2 as per technical clause 305 of MORT&H specification	Per Acre	15.81	~~1,50,000~~ 175000	2766750 ~~2371800~~
3	Providing and laying Bituminous road (150mm GSB, ~~2~~50mm WMM, 50mm DBM, 30 ~~25~~mm BC).	Sqm	9200 ~~10,511.50~~	1500 ~~1,200~~	138 00000 ~~12613800~~
4	Provision for kerbs & channels of C.C. 1.2:4	Metre	3,080.00	600 ~~700~~	1848000 ~~2156000~~
5	Provision for arrangement of guide map and indicating board etc.	Lumpsum			150000
6	Provision for providing and fixing of plot indicator plates	Lumpsum			100000
7	Provision for carriage of material / unforeseen	Lumpsum			100000

8	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including Reflectorising glass beeds @250 gms per sqm, thickness of 2.5 mm is exclusive of surface applied glass beeds as per IRC:35				200000
9	Construction of entry point and beautification of entry				300000
10	Provision of traffic light arrangement				100000
11	Provision of leveling and demarcation charges				200000 ~~100000~~
12	Const. of Conc. parking with Tower block	per sq.m	1333	1500	2000000
	Sub Total			22080950	~~18507800~~
	Add 3% contingencies & PH Services			662429	~~555234~~
	Sub Total			22743379	~~19063034~~
	Add 49% Departmental Charges + Price Escalation			11144256	~~9340887~~
	Total			33887635	~~28403921~~
	Say Rs. In Lacs				~~284.04~~

Say : 338.88 Lacs

(C.O. to Final Abstract of cost)

For SPICE ONE BUILDERS PVT. LTD

Sub Work No. V **STREET LIGHTING**

S. No.	Description	Unit	Qty	Rate (In Rs.)	Amount (In Rs.)
1	Provision for Street Lighting at surrounding area as per standard specifications of HVPN etc. complete	Acre	15.812	2,50,000	39,53,000
	Add 3% contingencies & PH Services				1,18,590
	Total				**40,71,590**
	Add 49% Departmental Charges + Price Escalation				19,95,079
	Total				**60,66,669**
	Say Rs. In Lacs				**60.67**

(C.O. to Final Abstract of cost)

SPICE ONE BUILDERS PVT. LTD.

Sub Work No. VI **HORTICULTURE**

S. No.	Description	Unit	Qty	Rate (In Rs.)	Amount (In Rs.)
1	Development of Lawn Areas			1.75	
a.	Trenching of ordinary soil upto depth of 60 cm i/c removal & stacking of serviceable material & disposing by spreading and levelling within a lead of 50 M and making up the trench area for proper levels by filling with earth or earth mixed with manure before and after flooding trench with water i/c cost of imported earth and manure with all fitting and valve etc. complete 1.2102 Acre @ Rs. 1.5 lac/acre	Per Acre	1.2102	~~1.5~~ lac /Acre	~~181530~~ 211785-00
b.	Rough dressing of turfed area				
c	Grassing with "Cynadon dactylon" i/c watering and maintenance of lawns for 30 days till the grass forms a thick lawn, free from weeds and fit for moving in row 7.5 cm part in eighter direction				
d	organized green 4897.48 Sqm Or 1.2102 Acres (As per detail given in green park area calculation)				
2	Providing and planting trees along boundary @ 7 m interval (Length appx ~~1522~~ 2440 M) = ~~1522~~ 2440/7 = ~~217.4~~ Nos 245 Say No. of trees = ~~218~~ Nos 245 Cost details : Excavation = Rs. 60 Manure = Rs. 90 Tree Gaurd = Rs. 1500 Tree Plant = Rs. 150 Total Rs. = Rs. 1800		245		441000
		Each	~~218~~	1,800	~~392,400~~
3	Provision of providing and fixing of grill wall fencing with brick masonry toe wall around open spaces LS				10,00,000
4	Provision for providing and fixing of sprinkler irrigation system in parks/open spaces 1.2102 Acres @Rs. .50 lac per acre	Per Acre	1.2102	0.5 lac /Acre	60,510
					1713295-00
	Total				~~1634440~~
	Add 3% contingencies & PH Services				51398 ~~49033~~

For SPICE ONE BUILDERS P[illegible]

Director

	Total			1764693	~~16,83,473~~
	Add 49% Departmental Charges + Price Escalation			864709	~~8,24,902~~
	Total			2629393	~~25,08,375~~
	~~**Say Rs. In Lacs**~~				~~25.08~~

(C.O. to Final abstract of cost)

Say : 26.30 Lacs

For SPICE ONE BUILDERS PVT. LTD

Authorised Signatory Director

Sub Work No. VII **Mtc. Of services & Resurfacing of Road**

S. No.	Description	Unit	Qty	Rate (In Rs.)	Amount (In Rs.)
1	Mtc. Of water supply, sewer, storm water drain, roads, street light, hort. Etc. for period of 10 years including operation charges full establishment etc. complete in all respects	Acre	15.812	800000 ~~7,50,000~~	12649600 ~~1,18,59,000~~
2	Provision for resurfacing of roads after 5 years of 1st phase with provision of 50mm thick BM including leveling coarse and 25mm BC as per crust design whichever is safer	Sqm	9200 ~~10511.5~~	660	6072000 ~~69,37,590~~
3	2nd phase after next five years of 1st phase (50mm DBM & 30mm BC or as per crust design whichever is safer	Sqm	9200 ~~10511.5~~	825	7590000 ~~86,71,988~~
	Sub Total			26311600-00	~~2,74,68,578~~
	Add 3% contingencies & PH Services			789348-00	8,24,057.33
	Total			27100946	~~2,82,92,634.83~~
	Add 49% Departmental Charges			13279464	~~1,38,63,391~~
	Total				~~4,21,56,026~~
	Say Rs. In Lacs			= 40380410-00	~~421.56~~
				Say = 403.81 Lacs	

(C.O. to Final abstract of cost)

Material Statement of Road Works

S. No.	Road No.	Road Width	Length	Width	Area	Unit
i.	1	9.00	73.50	4.50 ~~5.50~~	~~404.25~~	Sqm
ii.	2	9.00	132.50	4.50 ~~5.50~~	~~728.75~~	Sqm
iii.	3	9.00	133.50	4.50 ~~5.50~~	~~734.25~~	Sqm
iv.	4	9.00	75.50	4.50 ~~5.50~~	~~415.25~~	Sqm
v.	5	9.00	158.50	4.50 ~~5.50~~	~~871.75~~	Sqm
vi.	6	9.00	323.50	4.50 ~~5.50~~	~~1779.25~~	Sqm
vii.	7	12.00	37.50	6.00 ~~7.50~~	~~281.25~~	Sqm
viii.	8	9.00	52.00	4.50 ~~5.50~~	~~286.00~~	Sqm
ix.	9	9.00	52.00	4.50 ~~5.50~~	~~286.00~~	Sqm
x.	10	9.00	52.00	4.50 ~~5.50~~	~~286.00~~	Sqm
xi.	11	9.00	52.00	4.50 ~~5.50~~	~~286.00~~	Sqm
xii.	12	9.00	52.00	4.50 ~~5.50~~	~~286.00~~	Sqm
xiii.	13	9.00	52.00	4.50 ~~5.50~~	~~286.00~~	Sqm
xiv.	14	24.00	193.50	2x7	~~2709.00~~	Sqm
xv.	15	24.00	26.50	2x7	~~371.00~~	Sqm
	G. Total		**1466.50**		~~**10010.75**~~	Sqm
Add 5% extra for curves					~~500.54~~	Sqm
Total					~~**10511.29**~~	**Sqm**
				Say	~~**10511.5**~~	**Sqm**

330·75
596·25
600·75
339·75
713·25
1455·75
225·00
234·00
234·00
234·00
234·00
234·00
234·00
2709·00
371·00
6743·50
437·18
9180·68

Say 9200 Sqm

ii) Kerbs & Channels

i)	9.00 Mtr wide road (2 x1209)	2418	Mtr
ii)	12.00 Mtr wide road (2 x37.50)	75	Mtr
iii)	24.00 Mtr wide road (2 x220.00)	440	Mtr
	Total	**2933**	**Mtr**
	Add 5% for curves	147	Mtr
	Total	**3080**	**Mtr**

II) Footpath :-

~~(i) 9M wide road = 1x 1209M x 1.20M~~	~~1450.80~~	~~Sqm.~~
~~(ii) 12M wide road = 1x 37.50M x 1.20M~~	~~45.00~~	~~Sqm.~~
(iiii) 24M wide road = 1x 220M x 1.20M	264.00	Sqm.
Total	~~1759.80~~	~~Sqm.~~
Add 5% for curves	13·20 ~~87.99~~	Sqm.
Total	~~1847.79~~	~~Sqm.~~ 277·20
Say ~~1847.80~~ Sqm		

280 Sqm

For SPICE ONE BUILDERS PVT. LTD.

Authorised Signatory/Director

PROJECT:-LAYOUT PLAN OF AFFORDABLE RESIDENTIAL PLOTTED COLONY UNDER DDJAY 2016 FOR AN AREA MEASURING 15.8125 ACRES FALLING IN REVENUE ESTATE OF VILLAGE KHERI SADH, SEC-27A, TEHSIL SAMPLA, DISTRICT ROHTAK BEING DEVELOPED BY M/S SPICE ONE BUILDERS PVT LTD IN COLLABORATION WITH M/S ONE HEIGHT DEVELOPERS PVT LTD.

SUBHEAD : STORM WATER DRAINAGE - DESIGN CALCULATION

S. No.	Line Referances	Size of Manhole	Catchment area in Acres			Discharge	Proposed Pipe Dia	Gradient	Length	Velocity	Carrying Capacity	Fall in line due to slope	Ground Level in Meter	Invert Level in Meter		Depth Pipe in meter	
		Diameter/Lx	Self	Branch	Total	m^3 / Sec	M	1 IN :	M	M/Sec	m^3 / Sec	M.	Start	Start	End	Start	End
1	RM 01-RM 02	910 MM	0.159	0	0.159	0.002	400	425	12.3	0.82	0.05	0.029	0.00	-1.360	-1.389	1.360	1.389
2	RM 02-RM 03	910 MM	0.159	0.159	0.318	0.004	400	425	12.9	0.82	0.05	0.030	0.00	-1.389	-1.419	1.389	1.419
3	RM 03-RM 04	910 MM	0.318	0.000	0.318	0.004	400	425	12.9	0.82	0.05	0.030	0.00	-1.419	-1.450	1.419	1.450
4	RM 04-RM 05	910 MM	0.318	0.412	0.730	0.010	400	425	14.3	0.82	0.05	0.034	0.00	-1.450	-1.483	1.450	1.483
5	RM 05-RM 06	910 MM	0.730	0.000	0.730	0.010	400	425	18.0	0.82	0.05	0.042	0.00	-1.483	-1.526	1.483	1.526
6	RM 06-RM 11	910 MM	0.730	0.159	0.889	0.012	400	425	24.9	0.82	0.05	0.059	0.00	-1.526	-1.584	1.526	1.584
7	RM 07-RM 08	910 MM	0.159	0.159	0.318	0.004	400	425	12.4	0.82	0.05	0.029	0.00	-1.200	-1.229	1.200	1.229
8	RM08-RM 09	910 MM	0.318	0.000	0.318	0.004	400	425	12.9	0.82	0.05	0.030	0.00	-1.229	-1.260	1.229	1.260
9	RM 09-RM 10	910 MM	0.318	0.000	0.318	0.004	400	425	12.9	0.82	0.05	0.030	0.00	-1.260	-1.290	1.260	1.290
10	RM 10-RM 11	910 MM	0.318	0.159	0.477	0.007	400	425	14.5	0.82	0.05	0.034	0.00	-1.290	-1.324	1.290	1.324
11	RM 11-RM12	910 MM	1.366	0	1.366	0.019	400	425	16.8	0.82	0.05	0.040	0.00	-1.584	-1.624	1.584	1.624
12	RM12-RM 13	910 MM	1.366	0.159	1.526	0.021	400	425	16.0	0.82	0.05	0.038	0.00	-1.624	-1.661	1.624	1.661
13	RM13-RM 18	910 MM	1.526	0.000	1.526	0.021	400	425	10.2	0.82	0.05	0.024	0.00	-1.661	-1.685	1.661	1.685
14	RM 14-RM 15	910 MM	0.159	0	0.159	0.002	400	425	12.3	0.82	0.05	0.029	0.00	-1.200	-1.229	1.200	1.229
15	RM15-RM 16	910 MM	0.159	0.159	0.318	0.004	400	425	12.9	0.82	0.05	0.030	0.00	-1.229	-1.259	1.229	1.259
16	RM 16-RM 17	910 MM	0.318	0.000	0.318	0.004	400	425	12.9	0.82	0.05	0.030	0.00	-1.259	-1.290	1.259	1.290
17	RM17-RM 18	910 MM	0.318	0.159	0.477	0.007	400	425	14.5	0.82	0.05	0.034	0.00	-1.290	-1.324	1.290	1.324
18	RM 18-RM 19	1210 MM	2.003	0	2.003	0.028	400	425	21.7	0.82	0.05	0.051	0.00	-1.685	-1.736	1.685	1.736
19	RM19-RM 37	1210 MM	2.003	0.159	2.162	0.030	400	425	21.2	0.82	0.05	0.050	0.00	-1.736	-1.786	1.736	1.786
20	RM 20-RM 21	910 MM	0.159	0	0.159	0.002	400	425	12.3	0.82	0.05	0.029	0.00	-1.200	-1.229	1.200	1.229
21	RM21-RM 22	910 MM	0.159	0.159	0.318	0.004	400	425	12.9	0.82	0.05	0.030	0.00	-1.229	-1.259	1.229	1.259
22	RM 22-RM 23	910 MM	0.318	0.000	0.318	0.004	400	425	12.9	0.82	0.05	0.030	0.00	-1.259	-1.290	1.259	1.290
23	RM23-RM 37	910 MM	0.318	0.159	0.477	0.007	400	425	14.3	0.82	0.05	0.034	0.00	-1.290	-1.323	1.290	1.323
24	RM 24-RM 25	910 MM	0.159	0	0.159	0.002	400	425	16.0	0.82	0.05	0.038	0.00	-1.200	-1.238	1.200	1.238
25	RM25-RM 26	910 MM	0.159	0.159	0.318	0.004	400	425	16.0	0.82	0.05	0.038	0.00	-1.238	-1.275	1.238	1.275
26	RM26-RM 27	910 MM	0.318	0.000	0.318	0.004	400	425	16.0	0.82	0.05	0.038	0.00	-1.275	-1.313	1.275	1.313
27	RM27-RM 28	910 MM	0.318	0.159	0.477	0.007	400	425	16.0	0.82	0.05	0.038	0.00	-1.313	-1.351	1.313	1.351

For SPICE ONE BUILDERS PVT. LTD.

Authorised Signatory

28	RM28-RM 29	910 MM	0.477	0.000	0.477	0.007	400	425	16.0	0.82	0.05	0.038	0.00	-1.351	-1.388	1.351	1.388
29	RM29-RM 34	910 MM	0.477	0.159	0.637	0.009	400	425	25.0	0.82	0.05	0.059	0.00	-1.388	-1.447	1.388	1.447
30	RM 30-RM 31	910 MM	0.159	0	0.159	0.002	400	425	16.0	0.82	0.05	0.038	0.00	-1.200	-1.238	1.200	1.238
31	RM31-RM 32	910 MM	0.159	0.159	0.318	0.004	400	425	16.0	0.82	0.05	0.038	0.00	-1.238	-1.275	1.238	1.275
32	RM32-RM 33	910 MM	0.318	0.000	0.318	0.004	400	425	23.2	0.82	0.05	0.055	0.00	-1.275	-1.330	1.275	1.330
33	RM33-RM 34	910 MM	0.318	0.159	0.477	0.007	400	425	11.3	0.82	0.05	0.027	0.00	-1.330	-1.357	1.330	1.357
34	RM 34-RM 35	910 MM	1.114	0	1.114	0.016	400	425	21.0	0.82	0.05	0.049	0.00	-1.447	-1.496	1.447	1.496
35	RM35-RM 36	910 MM	1.114	0.000	1.114	0.016	400	425	17.6	0.82	0.05	0.041	0.00	-1.496	-1.538	1.496	1.538
36	RM36-RM 37	1210 MM	1.114	0.000	1.114	0.016	400	425	8.0	0.82	0.05	0.019	0.00	-1.538	-1.557	1.538	1.557
37	RM 37-RM 38	1210 MM	8.237	0	8.237	0.116	400	425	14.7	0.82	0.05	0.035	0.00	-1.786	-1.821	1.786	1.821
38	RM38-RM 39	1210 MM	8.237	0.159	8.396	0.118	400	425	15.9	0.82	0.05	0.037	0.00	-1.821	-1.858	1.821	1.858
39	RM39-RM 44	1210 MM	8.396	0.159	8.555	0.120	400	425	12.4	0.82	0.05	0.029	0.00	-1.858	-1.888	1.858	1.888
40	RM40-RM 41	910 MM	0.159	0	0.159	0.002	400	425	14.0	0.82	0.05	0.033	0.00	-1.200	-1.233	1.200	1.233
41	RM41-RM 42	910 MM	0.159	0.000	0.159	0.002	400	425	14.7	0.82	0.05	0.035	0.00	-1.233	-1.268	1.233	1.268
42	RM42-RM 43	910 MM	0.159	0.159	0.318	0.004	400	425	14.7	0.82	0.05	0.035	0.00	-1.268	-1.302	1.268	1.302
43	RM43-RM 44	910 MM	0.318	0.000	0.318	0.004	400	425	8.9	0.82	0.05	0.021	0.00	-1.302	-1.323	1.302	1.323
44	RM 44-RM 45	1210 MM	0.318	0	0.318	0.004	400	425	19.5	0.82	0.05	0.046	0.00	-1.888	-1.933	1.888	1.933
45	RM45-RM 49	1210 MM	0.318	0.000	0.318	0.004	400	425	23.5	0.82	0.05	0.055	0.00	-1.933	-1.989	1.933	1.989
46	RM46-RM 47	910 MM	0.159	0	0.159	0.002	400	425	14.0	0.82	0.05	0.033	0.00	-1.200	-1.233	1.200	1.233
47	RM47-RM 48	910 MM	0.159	0.000	0.159	0.002	400	425	14.5	0.82	0.05	0.034	0.00	-1.233	-1.267	1.233	1.267
48	RM48-RM 49	910 MM	0.159	0.159	0.318	0.004	400	425	22.5	0.82	0.05	0.053	0.00	-1.267	-1.320	1.267	1.320
49	RM 49-RM 50	1210 MM	0.159	0	0.159	0.002	400	425	24.5	0.82	0.05	0.058	0.00	-1.989	-2.046	1.989	2.046
50	RM50-RM 51	1210 MM	0.159	0.159	0.318	0.004	400	425	31.5	0.82	0.05	0.074	0.00	-2.046	-2.120	2.046	2.120
51	RM51-RM 62	1210 MM	0.318	0.086	0.405	0.006	400	425	22.7	0.82	0.05	0.053	0.00	-2.120	-2.174	2.120	2.174
52	RM 52-RM 53	910 MM	8.555	0	8.555	0.120	400	425	14.6	0.82	0.05	0.034	0.00	-1.200	-1.234	1.200	1.234
53	RM53-RM 54	910 MM	8.555	0.159	8.714	0.122	400	425	15.2	0.82	0.05	0.036	0.00	-1.234	-1.270	1.234	1.270
54	RM54-RM 55	910 MM	8.714	0.159	8.873	0.125	400	425	15.2	0.82	0.05	0.036	0.00	-1.270	-1.306	1.270	1.306
55	RM55-RM 56	910 MM	8.873	0.000	8.873	0.125	400	425	15.2	0.82	0.05	0.036	0.00	-1.306	-1.342	1.306	1.342
56	RM56-RM 57	910 MM	8.873	0.159	9.032	0.127	400	425	15.3	0.82	0.05	0.036	0.00	-1.342	-1.378	1.342	1.378
57	RM57-RM 58	910 MM	9.032	1.067	10.099	0.142	400	425	15.2	0.82	0.05	0.036	0.00	-1.378	-1.413	1.378	1.413
58	RM58-RM 59	910 MM	10.099	0.159	10.258	0.144	400	425	15.2	0.82	0.05	0.036	0.00	-1.413	-1.449	1.413	1.449

59	RM59-RM 60	910 MM	10.258	0.000	10.258	0.144	400	425	16.0	0.82	0.05	0.038	0.00	-1.449	-1.487	1.449	1.487
60	RM60-RM 61	910 MM	10.258	0.159	10.418	0.146	400	425	35.0	0.82	0.05	0.082	0.00	-1.487	-1.569	1.487	1.569
61	RM61-RM 62	1210 MM	10.418	0.000	10.418	0.146	400	425	29.5	0.82	0.05	0.069	0.00	-1.569	-1.639	1.569	1.639
62	RM62-RM 63	1510 MM	10.418	0	10.418	0.146	400	425	6.7	0.82	0.05	0.016	0.00	-2.174	-2.190	2.174	2.190
63	RM63-RM 64	1510 MM	10.418	0.000	10.418	0.146	400	425	22.0	0.82	0.05	0.052	0.00	-2.190	-2.241	2.190	2.241
64	RM64-RM 65	1510 MM	10.418	0.000	10.418	0.146	400	425	21.5	0.82	0.05	0.051	0.00	-2.241	-2.292	2.241	2.292
65	RM65-RM 66	1510 MM	10.418	0.159	10.577	0.149	400	425	15.0	0.82	0.05	0.035	0.00	-2.292	-2.327	2.292	2.327
66	RM66-RM 67	1510 MM	10.577	0.159	10.736	0.151	400	425	15.0	0.82	0.05	0.035	0.00	-2.327	-2.363	2.327	2.363
67	RM67-RM 81	1510 MM	10.736	0.000	10.736	0.151	400	425	23.5	0.82	0.05	0.055	0.00	-2.363	-2.418	2.363	2.418
68	RM 68-RM 69	910 MM	0.159	0	0.159	0.002	400	425	22.1	0.82	0.05	0.052	0.00	-1.200	-1.252	1.200	1.252
69	RM69-RM 70	910 MM	0.159	0.159	0.318	0.004	400	425	15.0	0.82	0.05	0.035	0.00	-1.252	-1.287	1.252	1.287
70	RM70-RM 71	910 MM	0.318	0.159	0.477	0.007	400	425	15.0	0.82	0.05	0.035	0.00	-1.287	-1.323	1.287	1.323
71	RM71-RM 77	910 MM	0.477	0	0.477	0.007	400	425	23.5	0.82	0.05	0.055	0.00	-1.323	-1.378	1.323	1.378
72	RM72-RM 73	910 MM	0.159	0	0.159	0.002	400	425	12.5	0.82	0.05	0.029	0.00	-1.574	-1.603	1.574	1.603
73	RM73-RM 74	910 MM	0.159	0.000	0.159	0.002	400	425	13.0	0.82	0.05	0.031	0.00	-1.603	-1.634	1.603	1.634
74	RM74-RM 75	910 MM	0.159	0.159	0.318	0.004	400	425	13.2	0.82	0.05	0.031	0.00	-1.634	-1.665	1.634	1.665
75	RM75-RM 76	910 MM	0.318	0.159	0.477	0.007	400	425	19.6	0.82	0.05	0.046	0.00	-1.665	-1.711	1.665	1.711
76	RM76-RM 77	910 MM	0.477	0.000	0.477	0.007	400	425	25.0	0.82	0.05	0.059	0.00	-1.711	-1.770	1.711	1.770
77	RM 77-RM 78	910 MM	0.159	0	0.159	0.002	400	425	8.8	0.82	0.05	0.021	0.00	-1.770	-1.791	1.770	1.791
78	RM78-RM 79	910 MM	0.159	0.159	0.318	0.004	400	425	13.0	0.82	0.05	0.031	0.00	-1.791	-1.821	1.791	1.821
79	RM79-RM 80	910 MM	0.318	0.159	0.477	0.007	400	425	13.0	0.82	0.05	0.031	0.00	-1.821	-1.852	1.821	1.852
80	RM80-RM 81	910 MM	0.477	0.159	0.637	0.009	400	425	13.9	0.82	0.05	0.033	0.00	-1.852	-1.885	1.852	1.885
81	RM 81-RM 82	1510 MM	1.591	0	1.591	0.022	400	425	23.0	0.82	0.05	0.054	0.00	-2.418	-2.472	2.418	2.472
82	RM82-RM 91	1510 MM	1.591	0.159	1.750	0.025	400	425	15.9	0.82	0.05	0.037	0.00	-2.472	-2.509	2.472	2.509
83	RM 83-RM 84	910 MM	0.159	0	0.159	0.002	400	425	9.7	0.82	0.05	0.023	0.00	-1.851	-1.874	1.851	1.874
84	RM84-RM 85	910 MM	0.159	0.159	0.318	0.004	400	425	12.3	0.82	0.05	0.029	0.00	-1.874	-1.903	1.874	1.903
85	RM85-RM 86	910 MM	0.318	0.159	0.477	0.007	400	425	12.2	0.82	0.05	0.029	0.00	-1.903	-1.931	1.903	1.931
86	RM86-RM 87	910 MM	0.477	0.159	0.637	0.009	400	425	12.3	0.82	0.05	0.029	0.00	-1.931	-1.960	1.931	1.960
87	RM87-RM 88	910 MM	0.637	0.159	0.796	0.011	400	425	11.3	0.82	0.05	0.027	0.00	-1.960	-1.987	1.960	1.987
88	RM88-RM 89	910 MM	0.796	0.086	0.882	0.012	400	425	14.3	0.82	0.05	0.034	0.00	-1.987	-2.021	1.987	2.021
89	RM89-RM 90	910 MM	0.882	0	0.882	0.012	400	425	14.0	0.82	0.05	0.033	0.00	-2.021	-2.054	2.021	2.054
90	RM90-RM 91	910 MM	0.882	0	0.882	0.012	400	425	21.0	0.82	0.05	0.049	0.00	-2.054	-2.103	2.054	2.103

91	RM 91-RM 92	1510 MM	14.960	0	14.960	0.210	400	425	14.0	0.82	0.05	0.033	0.00	-2.509	-2.542	2.509	2.542
92	RM92-RM 93	1510 MM	14.960	0.159	15.119	0.213	400	425	12.9	0.82	0.05	0.030	0.00	-2.542	-2.573	2.542	2.573
93	RM93-RM 94	1510 MM	15.119	0.086	15.205	0.214	400	425	12.9	0.82	0.05	0.030	0.00	-2.573	-2.603	2.573	2.603
94	RM94-RM 95	1510 MM	15.205	0	15.205	0.214	400	425	15.6	0.82	0.05	0.037	0.00	-2.603	-2.640	2.603	2.640
95	RM95-RM 96	1510 MM	15.205	0.159	15.364	0.216	400	425	12.3	0.82	0.05	0.029	0.00	-2.640	-2.669	2.640	2.669
96	RM96-RM 97	1510 MM	15.364	0.159	15.524	0.218	400	425	12.3	0.82	0.05	0.029	0.00	-2.669	-2.698	2.669	2.698
97	RM97-RM 98	1510 MM	15.524	0.000	15.524	0.218	400	425	6.5	0.82	0.05	0.015	0.00	-2.698	-2.713	2.698	2.713
98	RM98-RM 99	1510 MM	15.524	0.000	15.524	0.218	400	425	19.0	0.82	0.05	0.045	0.00	-2.713	-2.758	2.713	2.758
99	RM99-RM 100	1510 MM	15.524	0.159	15.683	0.220	400	425	13.0	0.82	0.05	0.031	0.00	-2.758	-2.788	2.758	2.788
100	RM100-RM 101	1510 MM	15.683	0	15.683	0.220	400	425	12.0	0.82	0.05	0.028	0.00	-2.788	-2.816	2.788	2.816
101	RM101-EXTERNAL	1510 MM	15.683	0	15.683	0.220	400	425	5.0	0.82	0.05	0.012	0.00	-2.816	-2.828	2.816	2.828

For SPICE ONE BUILDERS PVT. LTD

Authorised Signatory

PROJECT:-LAYOUT PLAN OF AFFORDABLE RESIDENTIAL PLOTTED COLONY UNDER DDJAY 2016 FOR AN AREA MEASURING 15.6125 ACRES FALLING IN REVENUE ESTATE OF VILLAGE KHERI SADH, SEC-27A, TEHSIL SAMPLA, DISTRICT ROHTAK BEING DEVELOPED BY M/S SPICE ONE BUILDERS PVT LTD IN COLLABORATION WITH M/S ONE HEIGHT DEVELOPERS PVT LTD.

SUBHEAD : SEWERAGE SCHEME - DESIGN CALCULATION

S. No.	Line References	Size of Manhole	No. of Plot/Other areas (Community,community etc)			Population @ 13.5 per/plot & per other areas	Total Discharge as per 155.25 LPCD & 45 LPCD	Sewerage Quantity after Evaporation Losses (20%)	Sewerage Discharge Peak at 3 Times	Size of the Pipe (mm)	Velocity (M/Sec)	Carrying Capacity	Gradient	Length (M)	Fall in line due to slope	Ground level	Invert Level		Depth	
																	Start	End	Start	End
	SITE PLAN	Diameter/Lx	Self	Branch	Total	Total	LPD	LPD	m^3/sec	mm	0.015	m^3/sec	1 IN :		M	M	M		M	
1	MH-01-MH-02	910 MM	1	0	1	13.5	2095.875	1676.7	0.000	200	0.75	0.012	180	5.8	0.03	0.00	-0.900	-0.932	0.900	0.932
2	MH-02-MH-03	910 MM	1	6	7	94.5	14671.125	11736.9	0.000	200	0.75	0.012	180	11.5	0.06	0.00	-0.932	-0.996	0.932	0.996
3	MH-03-MH-04	910 MM	7	2	9	121.5	18862.88	15090.3	0.001	200	0.75	0.012	180	11.5	0.06	0.00	-0.996	-1.060	0.996	1.060
4	MH-04-MH-05	910 MM	9	4	13	175.5	27246.375	21797.1	0.001	200	0.75	0.012	180	11.3	0.06	0.00	-1.060	-1.123	1.060	1.123
5	MH-05-MH-06	910 MM	13	0	13	175.5	27246.38	21797.1	0.001	200	0.75	0.012	180	11.5	0.06	0.00	-1.123	-1.187	1.123	1.187
6	MH-06-MH-07	910 MM	13	3	16	216	33534	26827.2	0.001	200	0.75	0.012	180	11.4	0.06	0.00	-1.187	-1.250	1.187	1.250
7	MH-07-MH-08	910 MM	16	6	22	297	46109.25	36887.4	0.001	200	0.75	0.012	180	11.2	0.06	0.00	-1.250	-1.312	1.250	1.312
8	MH-08-MH-09	910 MM	22	2	24	324	50301	40240.8	0.001	200	0.75	0.012	180	6.7	0.04	0.00	-1.312	-1.349	1.312	1.349
9	MH-09-MH-10	910 MM	24	4	28	378	58684.5	46947.6	0.002	200	0.75	0.012	180	15.2	0.08	0.00	-1.349	-1.434	1.349	1.434
10	MH-10-MH-22	910 MM	28	3	31	418.5	64972.125	51977.7	0.002	200	0.75	0.012	180	14.7	0.08	0.00	-1.434	-1.516	1.434	1.516
11	MH-11-MH-12	910 MM	1	0	1	13.5	2095.875	1676.7	0.000	200	0.75	0.012	180	6.2	0.03	0.00	-0.900	-0.934	0.900	0.934
12	MH-12-MH-13	910 MM	1	6	7	94.5	14671.125	11736.9	0.000	200	0.75	0.012	180	12.5	0.07	0.00	-0.934	-1.004	0.934	1.004
13	MH-13-MH-14	910 MM	7	2	9	121.5	18862.88	15090.3	0.001	200	0.75	0.012	180	12.5	0.07	0.00	-1.004	-1.073	1.004	1.073
14	MH-14-MH-15	910 MM	9	4	13	175.5	27246.375	21797.1	0.001	200	0.75	0.012	180	12.3	0.07	0.00	-1.073	-1.142	1.073	1.142
15	MH-15-MH-16	910 MM	13	0	13	175.5	27246.38	21797.1	0.001	200	0.75	0.012	180	12.3	0.07	0.00	-1.142	-1.210	1.142	1.210
16	MH-16-MH-17	910 MM	13	3	16	216	33534	26827.2	0.001	200	0.75	0.012	180	12.3	0.07	0.00	-1.210	-1.278	1.210	1.278
17	MH-17-MH-18	910 MM	16	6	22	297	46109.25	36887.4	0.001	200	0.75	0.012	180	12.3	0.07	0.00	-1.278	-1.347	1.278	1.347
18	MH-18-MH-19	910 MM	22	2	24	324	50301	40240.8	0.001	200	0.75	0.012	180	12.5	0.07	0.00	-1.347	-1.416	1.347	1.416
19	MH-19-MH-20	910 MM	24	4	28	378	58684.5	46947.6	0.002	200	0.75	0.012	180	12.5	0.07	0.00	-1.416	-1.486	1.416	1.486
20	MH-20-MH-21	910 MM	28	3	31	418.5	64972.125	51977.7	0.002	200	0.75	0.012	180	12.3	0.07	0.00	-1.486	-1.554	1.486	1.554
21	MH-21-MH-22	1210 MM	31	4	35	472.5	73355.625	58684.5	0.002	200	0.75	0.012	180	14.0	0.08	0.00	-1.554	-1.632	1.554	1.632
22	MH-22-MH-23	1210 MM	66	0	66	891	138327.75	110662.2	0.004	200	0.75	0.012	180	15.7	0.09	0.00	-1.632	-1.719	1.632	1.719
23	MH-23MH-24	1210 MM	66	4	70	945	146711.25	117369	0.004	200	0.75	0.012	180	15.2	0.08	0.00	-1.719	-1.803	1.719	1.803
24	MH-23-MH-40	1210 MM	70	2	72	972	150903.00	120722.4	0.004	200	0.75	0.012	180	15.6	0.09	0.00	-1.803	-1.890	1.803	1.890
25	MH-25-MH-26	910 MM	2	0	2	27	4191.75	3353.4	0.000	200	0.75	0.012	180	13.3	0.07	0.00	-0.900	-0.974	0.900	0.974
26	MH-26-MH-27	910 MM	2	4	6	81	12575.25	10060.2	0.000	200	0.75	0.012	180	13.3	0.07	0.00	-0.974	-1.048	0.974	1.048
27	MH-27-MH-28	910 MM	6	2	8	108	16767.00	13413.6	0.000	200	0.75	0.012	180	6.8	0.04	0.00	-1.048	-1.086	1.048	1.086
28	MH-28-MH-29	910 MM	8	4	12	162	25150.5	20120.4	0.001	200	0.75	0.012	180	26.5	0.15	0.00	-1.086	-1.233	1.086	1.233
29	MH-29-MH-36	910 MM	12	4	16	216	33534.00	26827.2	0.001	200	0.75	0.012	180	19.7	0.11	0.00	-1.233	-1.342	1.233	1.342
30	MH-30-MH-31	910 MM	3	0	3	40.5	6287.625	5030.1	0.000	200	0.75	0.012	180	7.6	0.04	0.00	-0.900	-0.942	0.900	0.942
31	MH-31-MH-32	910 MM	3	2	5	67.5	10479.375	8383.5	0.000	200	0.75	0.012	180	15.0	0.08	0.00	-0.942	-1.026	0.942	1.026
32	MH-32-MH-33	910 MM	5	2	7	94.5	14671.13	11736.9	0.000	200	0.75	0.012	180	15.0	0.08	0.00	-1.026	-1.109	1.026	1.109
33	MH-33-MH-34	910 MM	7	4	11	148.5	23054.625	18443.7	0.001	200	0.75	0.012	180	15.0	0.08	0.00	-1.109	-1.192	1.109	1.192
34	MH-34-MH-35	910 MM	11	6	17	229.5	35629.88	28503.9	0.001	200	0.75	0.012	180	7.5	0.04	0.00	-1.192	-1.234	1.192	1.234
35	MH-35-MH-36	910 MM	17	3	20	270	41917.50	33534	0.001	200	0.75	0.012	180	16.5	0.09	0.00	-1.234	-1.326	1.234	1.326
36	MH-36-MH-37	910 MM	36	0	36	486	75451.5	60361.2	0.002	200	0.75	0.012	180	13.0	0.07	0.00	-1.342	-1.414	1.342	1.414
37	MH-37-MH-38	910 MM	36	1	37	499.5	77547.375	62037.9	0.002	200	0.75	0.012	180	13.0	0.07	0.00	-1.414	-1.487	1.414	1.487
38	MH-38-MH-39	910 MM	37	3	40	540	83835.80	67068	0.002	200	0.75	0.012	180	13.0	0.07	0.00	-1.487	-1.559	1.487	1.559
39	MH-39-MH-40	1210 MM	40	3	43	580.5	90122.625	72098.1	0.003	200	0.75	0.012	180	17.0	0.09	0.00	-1.559	-1.653	1.559	1.653
40	MH-40-MH-41	1210 MM	109	0	109	1471.5	228450.375	182760.3	0.006	250	0.75	0.018	230	13.0	0.06	0.00	-1.890	-1.950	1.890	1.950
41	MH-41-MH-42	1210 MM	109	3	112	1512	234738	187790.4	0.007	250	0.75	0.018	230	15.0	0.07	0.00	-1.950	-2.015	1.950	2.015
42	MH-42-MH-43	1210 MM	112	2	114	1539	238929.75	191143.8	0.007	250	0.75	0.018	230	15.0	0.07	0.00	-2.015	-2.080	2.015	2.080
43	MH-43-MH-44	1510 MM	114	1	115	1552.5	241025.625	192820.5	0.007	250	0.75	0.018	230	15.0	0.07	0.00	-2.080	-2.146	2.080	2.146

44	MH-44-MH-45	1510 MM	115	2	117	1579.5	245217.38	196173.9	0.007	250	0.75	0.018	230	7.5	0.03	0.00	-2.146	-2.178	2.146	2.178
45	MH-45-MH-56	1510 MM	117	3	120	1620	251595	201204	0.007	250	0.75	0.018	230	14.2	0.06	0.00	-2.178	-2.240	2.178	2.240
46	MH-56-MH-114	1510 MM	136	2	138	1863	289230.75	231384.6	0.008	300	0.75	0.026	280	38.0	0.14	0.00	-2.240	-2.376	2.240	2.376
46	MH-46-MH-47	910 MM	2	0	2	27	4191.75	3353.4	0.000	200	0.75	0.012	180	15.2	0.08	0.00	-0.900	-0.984	0.900	0.984
47	MH-47-MH-48	910 MM	2	2	4	54	8383.5	6706.8	0.000	200	0.75	0.012	180	15.2	0.08	0.00	-0.984	-1.069	0.984	1.069
48	MH-48-MH-49	910 MM	4	3	7	94.5	14671.13	11736.9	0.000	200	0.75	0.012	180	15.2	0.08	0.00	-1.069	-1.153	1.069	1.153
49	MH-49-MH-50	910 MM	7	2	9	121.5	18862.875	15090.3	0.001	200	0.75	0.012	180	15.2	0.08	0.00	-1.153	-1.238	1.153	1.238
50	MH-50-MH-51	910 MM	9	5	14	189	29342.25	23473.8	0.001	200	0.75	0.012	180	15.2	0.08	0.00	-1.238	-1.322	1.238	1.322
51	MH-51-MH-52	910 MM	14	2	16	216	33534	26827.2	0.001	200	0.75	0.012	180	15.2	0.08	0.00	-1.322	-1.407	1.322	1.407
52	MH-52-MH-53	910 MM	16	0	16	216	33534	26827.2	0.001	200	0.75	0.012	180	15.2	0.08	0.00	-1.407	-1.491	1.407	1.491
53	MH-53-MH-54	910 MM	16	0	16	216	33534.00	26827.2	0.001	200	0.75	0.012	180	10.5	0.06	0.00	-1.491	-1.549	1.491	1.549
54	MH-54-MH-55	1210 MM	16	0	16	216	33534	26827.2	0.001	200	0.75	0.012	180	32.8	0.18	0.00	-1.549	-1.732	1.549	1.732
55	MH-55-MH-56	1210 MM	16	0	16	216	33534	26827.2	0.001	200	0.75	0.012	180	28.0	0.16	0.00	-1.732	-1.887	1.732	1.887
56	MH-57-MH-58	910 MM	2	0	2	27	4191.75	3353.4	0.000	200	0.75	0.012	180	14.8	0.08	0.00	-0.900	-0.982	0.900	0.982
57	MH-58-MH-59	910 MM	2	1	3	40.5	6287.625	5030.1	0.000	200	0.75	0.012	180	15.2	0.08	0.00	-0.982	-1.067	0.982	1.067
58	MH-59-MH-60	910 MM	3	2	5	67.5	10479.38	8383.5	0.000	200	0.75	0.012	180	5.6	0.04	0.00	-1.067	-1.109	1.067	1.109
59	MH-60-MH-61	910 MM	5	0	5	67.5	10479.375	8383.5	0.000	200	0.75	0.012	180	14.3	0.08	0.00	-1.109	-1.188	1.109	1.188
60	MH-61-MH-62	910 MM	5	1	6	81	12575.25	10060.2	0.000	200	0.75	0.012	180	21.0	0.12	0.00	-1.188	-1.305	1.188	1.305
61	MH-62-MH-63	910 MM	6	1	7	94.5	14671.125	11736.9	0.000	200	0.75	0.012	180	21.7	0.12	0.00	-1.305	-1.426	1.305	1.426
62	MH-63-MH-64	910 MM	2	0	2	27	4191.75	3353.4	0.000	200	0.75	0.012	180	13.0	0.07	0.00	-0.900	-0.972	0.900	0.972
63	MH-64-MH-65	910 MM	2	4	6	81	12575.25	10060.2	0.000	200	0.75	0.012	180	13.0	0.07	0.00	-0.972	-1.044	0.972	1.044
64	MH-65-MH-66	910 MM	6	8	14	189	29342.25	23473.8	0.001	200	0.75	0.012	180	13.0	0.07	0.00	-1.044	-1.117	1.044	1.117
65	MH-66-MH-67	910 MM	14	2	16	216	33534	26827.2	0.001	200	0.75	0.012	180	14.5	0.08	0.00	-1.117	-1.197	1.117	1.197
66	MH-67-MH-68	910 MM	23	2	25	337.5	52396.875	41917.5	0.001	200	0.75	0.012	180	15.8	0.09	0.00	-1.426	-1.513	1.426	1.513
67	MH-68-MH-69	1210 MM	25	1	26	351	54492.75	43594.2	0.002	200	0.75	0.012	180	16.0	0.09	0.00	-1.513	-1.602	1.513	1.602
68	MH-69-MH-74	1210 MM	26	2	28	378	58684.50	46947.6	0.002	200	0.75	0.012	180	16.0	0.09	0.00	-1.602	-1.691	1.602	1.691
69	MH-70-MH-71	910 MM	2	0	2	27	4191.75	3353.4	0.000	200	0.75	0.012	180	12.8	0.07	0.00	-0.900	-0.971	0.900	0.971
70	MH-71-MH-72	910 MM	2	4	6	81	12575.25	10060.2	0.000	200	0.75	0.012	180	12.8	0.07	0.00	-0.971	-1.042	0.971	1.042
71	MH-72-MH-73	910 MM	6	6	12	162	25150.50	20120.4	0.001	200	0.75	0.012	180	13.0	0.07	0.00	-1.042	-1.114	1.042	1.114
72	MH-73-MH-74	910 MM	12	4	16	216	33534	26827.2	0.001	200	0.75	0.012	180	15.1	0.08	0.00	-1.114	-1.198	1.114	1.198
73	MH-74-MH-75	1210 MM	44	0	44	594	92218.5	73774.8	0.003	200	0.75	0.012	180	16.0	0.09	0.00	-1.691	-1.780	1.691	1.780
74	MH-75-MH-76	1210 MM	44	2	46	621	96410.25	77128.2	0.003	200	0.75	0.012	180	8.1	0.05	0.00	-1.780	-1.825	1.780	1.825
75	MH-76-MH-97	1210 MM	46	3	49	661.5	102697.875	82158.3	0.003	200	0.75	0.012	180	8.7	0.05	0.00	-1.825	-1.874	1.825	1.874
76	MH-77-MH-78	910 MM	2	0	2	27	4191.75	3353.4	0.000	200	0.75	0.012	180	14.0	0.09	0.00	-1.120	-1.209	1.120	1.209
77	MH-78-MH-79	910 MM	2	3	5	67.5	10479.375	8383.5	0.000	200	0.75	0.012	180	14.0	0.09	0.00	-1.209	-1.298	1.209	1.298
78	MH-79-MH-80	910 MM	5	0	5	67.5	10479.38	8383.5	0.000	200	0.75	0.012	180	14.0	0.09	0.00	-1.298	-1.387	1.298	1.387
79	MH-80-MH-81	910 MM	5	2	7	94.5	14671.125	11736.9	0.000	200	0.75	0.012	180	14.0	0.09	0.00	-1.387	-1.476	1.387	1.476
80	MH-81-MH-82	910 MM	7	2	9	121.5	18862.875	15090.3	0.001	200	0.75	0.012	180	14.0	0.09	0.00	-1.476	-1.564	1.476	1.564
81	MH-82-MH-83	910 MM	9	3	12	162	25150.50	20120.4	0.001	200	0.75	0.012	180	14.0	0.09	0.00	-1.564	-1.653	1.564	1.653
82	MH-83-MH-84	910 MM	12	2	14	189	29342.25	23473.8	0.001	200	0.75	0.012	180	8.0	0.04	0.00	-1.653	-1.698	1.653	1.698
83	MH-84-MH-90	910 MM	14	1	15	202.5	31438.125	25150.5	0.001	200	0.75	0.012	180	19.0	0.11	0.00	-1.698	-1.803	1.698	1.803
84	MH-85-MH-86	910 MM	1	0	1	13.5	2095.875	1676.7	0.000	200	0.75	0.012	180	15.0	0.08	0.00	-0.900	-0.983	0.900	0.983
85	MH-86-MH-87	910 MM	1	2	3	40.5	6287.625	5030.1	0.000	200	0.75	0.012	180	16.0	0.09	0.00	-0.983	-1.072	0.983	1.072
86	MH-87-MH-88	910 MM	3	0	3	40.5	6287.63	5030.1	0.000	200	0.75	0.012	180	16.0	0.09	0.00	-1.072	-1.161	1.072	1.161
87	MH-88-MH-89	910 MM	3	0	3	40.5	6287.625	5030.1	0.000	200	0.75	0.012	180	8.0	0.04	0.00	-1.161	-1.206	1.161	1.206
88	MH-89-MH-90	910 MM	3	2	5	67.5	10479.375	8383.5	0.000	200	0.75	0.012	180	9.0	0.05	0.00	-1.206	-1.256	1.206	1.256
89	MH-90-MH-91	1210 MM	20	0	20	270	41917.5	33534	0.001	200	0.75	0.012	180	19.3	0.11	0.00	-1.803	-1.911	1.803	1.911

90	MH-91-MH-97	1210 MM	20	0	20	270	41917.5	33534	0.001	200	0.75	0.012	180	19.3	0.11	0.00	-1.911	-2.038	1.911	2.038
91	MH-92-MH-93	910 MM	2	0	2	27	4191.75	3353.4	0.000	200	0.75	0.012	180	12.8	0.07	0.00	-0.900	-0.971	0.900	0.971
92	MH-93-MH-94	910 MM	2	4	6	81	12575.25	10060.2	0.000	200	0.75	0.012	180	12.8	0.07	0.00	-0.971	-1.042	0.971	1.042
93	MH-94-MH-95	910 MM	6	4	10	135	20958.75	16767	0.001	200	0.75	0.012	180	12.8	0.07	0.00	-1.042	-1.113	1.042	1.113
94	MH-95-MH-96	910 MM	10	4	14	189	29342.25	23471.8	0.001	200	0.75	0.012	180	7.3	0.04	0.00	-1.113	-1.154	1.113	1.154
95	MH-96-MH-97	910 MM	14	2	16	216	33534.00	26827.2	0.001	200	0.75	0.012	180	8.6	0.05	0.00	-1.154	-1.202	1.154	1.202
96	MH-97-MH-98	1210 MM	36	0	36	486	75451.5	60361.2	0.002	250	0.75	0.018	230	17.6	0.08	0.00	-2.018	-2.094	2.018	2.094
97	MH-98-MH-99	1210 MM	38	2	38	513	79643.25	63714.6	0.002	250	0.75	0.018	230	9.3	0.04	0.00	-2.094	-2.135	2.094	2.135
98	MH-99-MH-100	1210 MM	38	1	39	526.5	81739.13	65391.3	0.002	250	0.75	0.018	230	16.0	0.07	0.00	-2.135	-2.204	2.135	2.204
99	MH-100-MH-105	1510 MM	39	3	42	567	88026.75	70421.4	0.002	250	0.75	0.018	230	16.0	0.07	0.00	-2.204	-2.274	2.204	2.274
100	MH-101-MH-102	910 MM	2	0	2	27	4191.75	3353.4	0.000	200	0.75	0.012	180	14.7	0.08	0.00	-0.900	-0.982	0.900	0.982
101	MH-102-MH-103	910 MM	2	5	7	94.5	14671.125	11736.9	0.000	200	0.75	0.012	180	14.5	0.08	0.00	-0.982	-1.062	0.982	1.062
102	MH-103-MH-104	910 MM	7	3	10	135	20958.75	16767	0.001	200	0.75	0.012	180	8.3	0.05	0.00	-1.062	-1.108	1.062	1.108
103	MH-104-MH-105	910 MM	10	6	16	216	33534	26827.2	0.001	200	0.75	0.012	180	18.0	0.10	0.00	-1.108	-1.208	1.108	1.208
104	MH-105-MH-106	1510 MM	58	2	60	810	125752.5	100602	0.003	300	0.75	0.026	280	16.0	0.06	0.00	-2.274	-2.331	2.274	2.331
105	MH-106-MH-111	1510 MM	60	3	63	850.5	132040.125	105632.1	0.004	300	0.75	0.026	280	16.0	0.06	0.00	-2.331	-2.388	2.331	2.388
106	MH-107-MH-108	910 MM	2	0	2	27	4191.75	3353.4	0.000	200	0.75	0.012	180	14.7	0.08	0.00	-0.900	-0.982	0.900	0.982
107	MH-108-MH-109	910 MM	2	5	7	94.5	14671.125	11736.9	0.000	200	0.75	0.012	180	14.7	0.08	0.00	-0.982	-1.063	0.982	1.063
108	MH-109-MH-110	910 MM	7	3	10	135	20958.75	16767	0.001	200	0.75	0.012	180	7.5	0.04	0.00	-1.063	-1.105	1.063	1.105
109	MH-110-MH-111	910 MM	10	6	16	216	33534.00	26827.2	0.001	200	0.75	0.012	180	17.0	0.09	0.00	-1.105	-1.199	1.105	1.199
110	MH-111-MH-112	1510 MM	95	0	95	1282.5	199108.125	159286.5	0.006	300	0.75	0.026	280	16.0	0.06	0.30	-2.388	-2.445	2.388	2.445
111	MH-112-MH-113	1510 MM	95	2	97	1309.5	203299.875	162639.9	0.006	300	0.75	0.026	280	16.0	0.06	0.00	-2.445	-2.502	2.445	2.502
112	MH-113-MH-114	1510 MM	97	4	101	1363.5	211683.38	169346.7	0.006	300	0.75	0.026	280	17.8	0.06	0.00	-2.502	-2.566	2.502	2.566
113	MH-114-STP	1510 MM	101	3	104	1404	217971	174376.8	0.006	300	0.75	0.026	280	2.0	0.01	0.00	-2.566	-2.573	2.566	2.573

For SPICE DIE BUILDERS PVT. LTD.

PROJECT:-LAYOUT PLAN OF AFFORDABLE RESIDENTIAL PLOTTED COLONY UNDER DDJAY 2016 FOR AN AREA MEASURING 15.3125 ACRES FALLING IN REVENUE ESTATE OF VILLAGE KHERI SADH, SEC-27A, TEHSIL SAMPLA, DISTRICT ROHTAK BEING DEVELOPED BY M/S SPICE ONE BUILDERS PVT LTD IN COLLABORATION WITH M/S ONE HEIGHT DEVELOPERS PVT LTD.

DOMESTIC WATER SUPPLY HYDRAULIC CALCULATION

S. NO.	Line No	Total Plot			Population @ 13.5 per/dua	Self total domestic water requirement from water calculation	Progressive water req. In	Total domestic water req. Per Day	Total water demand ltr /day	Peak Water Demand	Length of Pipe	Effective Length (actual length+ 25%)	Proposed line dia.	Velocity in m/sec	Frictional head losses	Total Frictional head losses	Plot	Cummulative Frictional head losses	Remark
		Self	Branch	Total															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
		Nos.	Nos.	Nos.	Nos.	Nos.	Nos.	Nos.	LPD	LPM	Mtr	Mtr	MM	Mtr/sec	Mtr/Mtr	Mtr	Head	Mtr	
1	D01-D02	0	284	284	3834	564238	564238	728460	728460	2023.5	1.5	2	100	5.15	0.29	0.55	0.55	0.55	
2	D02-D03	0	284	284	3834	564238	728460	1092690	1092690	3035.3	70	98	100	7.72	0.62	60.76	60.76	60.76	
3	D03-D04	8	88	88	1188	112860	477090	589950	589950	1638.8	57	71	80	6.52	0.59	42.04	42.04	42.04	
4	D04-D05	8	0	8	108	10260	123120	133380	133380	370.5	82.5	103	65	2.23	0.10	10.66	10.66	10.66	
5	D04-D06	0	40	40	540	51300	61560	112860	112860	313.5	9	11	65	1.89	0.08	0.85	0.85	0.85	
6	D06-D10	9	0	9	121.5	11542.5	62842.5	74385	74385	206.6	10	13	65	1.24	0.04	0.44	0.44	0.44	
7	D06-D07	10	0	10	135	12825	24367.5	37192.5	37193	103.3	75	94	65	0.62	0.01	0.91	0.91	0.91	
8	D08-D09	10	20	30	405	38475	51300	89775	89775	249.4	75	94	65	1.50	0.05	4.65	4.65	4.65	
9	D08-D09	0	10	10	135	12825	51300	64125	64125	178.1	9	11	65	1.07	0.03	0.30	0.30	0.30	
10	D09-D11	0	10	10	135	12825	25650	38475	38475	106.9	9	11	65	0.64	0.01	0.12	0.12	0.12	
11	D11-D12	9	0	9	121.5	11542.5	24367.5	35910	35910	99.8	75	94	65	0.60	0.01	0.85	0.85	0.85	
12	D02-D13	0	176	176	2376	225720	238545	464265	464265	1289.6	67	59	100	3.28	0.13	7.50	7.50	7.50	
13	D13-D14	0	20	20	270	25650	251370	277020	277020	769.5	10	13	80	3.06	0.15	1.82	1.82	1.82	
14	D14-D15	0	20	20	270	25650	51300	76950	76950	213.8	65	81	65	1.29	0.04	3.03	3.03	3.03	
15	D15-D16	16	0	16	216	20520	46170	66690	66690	185.3	123	154	65	1.12	0.03	4.40	4.40	4.40	
16	D16-D17	4	136	140	1890	179550	200070	379620	379620	1054.5	82	103	80	4.19	0.28	26.73	26.73	26.73	
17	D17-D18	3	11	14	189	17955	197505	215460	215460	598.5	37	46	65	3.61	0.25	11.62	11.62	11.62	
18	D18-D20	0	7	7	94.5	8977.5	26932.5	35910	35910	99.8	9	11	65	0.60	0.01	0.10	0.10	0.10	
19	D18-D19	4	8	4	54	5130	14107.5	19237.5	19230	53.4	9	11	65	0.32	0.00	0.03	0.03	0.03	
20	D20-D21	3	0	3	40.5	3847.5	12825	16672.5	16673	46.3	37	46	65	0.28	0.00	0.10	0.10	0.10	
21	D20-D22	4	0	4	54	5130	8977.5	14107.5	14100	39.2	9	11	65	0.24	0.00	0.02	0.02	0.02	
22	D17-D23	5	110	123	1660.5	157747.5	161595	319342.5	319343	887.1	43	54	65	5.24	0.52	27.98	27.98	27.98	
23	D23-D24	4	0	4	54	5130	162877.5	168007.5	168008	466.7	37	46	65	2.81	0.16	7.33	7.33	7.33	
24	D24-D25	4	8	4	54	5130	10260	15390	15390	42.8	24	30	65	0.26	0.00	0.06	0.06	0.06	
25	D24-D26	0	8	8	108	10260	15390	25650	25650	71.3	9	11	65	0.43	0.00	0.05	0.05	0.05	
26	D26-D27	4	8	4	54	5130	15390	20520	20520	57.0	37	46	65	0.34	0.00	0.15	0.15	0.15	
27	D26-D28	4	0	4	54	5130	10260	15390	15390	42.8	24	30	65	0.26	0.00	0.06	0.06	0.06	
28	D23-D29	6	100	106	1431	135945	141075	277020	277020	769.5	43	54	80	3.86	0.15	7.82	7.82	7.82	
29	D29-D30	4	4	8	108	10260	146205	156465	156465	434.6	37	46	65	2.62	0.14	6.42	6.42	6.42	
30	D29-D29A	8	26	26	351	33345	43605	76950	76950	213.8	30	48	80	0.85	0.01	0.64	0.64	0.64	

For SPICE ONE BUILDERS PVT. LTD.

31	D34A-D29B	16	0	16	216	20520	53865	74385	74385	206.6	120	150	65	1.24	0.04	5.26	5.26	5.26	
32	D29A-D29C	10	0	10	135	12825	33345	46170	46170	128.3	82	103	65	0.77	0.01	1.49	1.49	1.49	
33	D30-D31	4	0	4	54	5130	15390	20520	20520	57.0	24	30	65	0.34	0.00	0.10	0.10	0.10	
34	D30-D32	0	8	8	108	10260	15390	25650	25650	71.3	9	11	65	0.43	0.00	0.05	0.05	0.05	
35	D32-D33	4	0	4	54	5130	15390	20520	20520	57.0	28	35	65	0.34	0.00	0.11	0.11	0.11	
36	D32-D34	4	0	4	54	5130	10260	15390	15390	42.8	24	30	65	0.26	0.00	0.06	0.06	0.06	
37	D29-D35	5	43	48	648	61560	66690	128250	128250	356.3	43	54	80	1.42	0.03	1.88	1.88	1.88	
38	D35-D36	4	0	4	54	5130	66690	71820	71820	199.5	37	46	65	1.20	0.03	1.52	1.52	1.52	
39	D34-D37	4	0	4	54	5130	10260	15390	15390	42.8	24	30	65	0.26	0.00	0.06	0.06	0.06	
40	D36-D38	0	8	8	108	10260	15390	25650	25650	71.3	9	11	65	0.43	0.00	0.05	0.05	0.05	
41	D38-D39	3	0	3	40.5	3847.5	14107.5	17955	17955	49.9	24	30	65	0.30	0.00	0.08	0.08	0.08	
42	D38-D40	5	0	5	67.5	6412.5	10260	16672.5	16673	46.3	27	34	65	0.28	0.00	0.07	0.07	0.07	
43	D35-D41	6	35	41	553.5	52582.5	58995	111577.5	111578	309.9	41	51	80	1.23	0.03	1.38	1.38	1.38	
44	D41-D42	4	0	4	54	5130	57712.5	62842.5	62843	174.6	37	46	65	1.85	0.03	1.19	1.19	1.19	
45	D42-D44	0	9	9	121.5	11542.5	16672.5	28215	28215	78.4	9	11	65	0.47	0.01	0.07	0.07	0.07	
46	D44-D45	4	8	4	54	5130	16672.5	21802.5	21803	60.6	24	30	65	0.36	0.00	0.11	0.11	0.11	
47	D46-D46	5	0	5	67.5	6412.5	11542.5	17955	17955	49.9	28	35	65	0.30	0.00	0.09	0.09	0.09	
48	D41-D47	0	12	12	162	15390	21802.5	37192.5	37193	103.3	24	30	65	0.62	0.01	0.29	0.29	0.29	
49	D47-D48	4	12	16	216	20520	33918	54438	54430	156.8	28	35	65	0.94	0.02	0.74	0.74	0.74	
50	D48-D49	3	0	3	40.5	3847.5	24367.5	28215	28215	78.4	24	30	65	0.47	0.01	0.17	0.17	0.17	
51	D48-D50	9	9	9	121.5	11542.5	15390	26932.5	26933	74.8	9	11	65	0.45	0.01	0.06	0.06	0.06	
52	D38-D51	4	8	4	54	5130	16672.5	21802.5	21803	60.6	24	30	65	0.36	0.00	0.11	0.11	0.11	
53	D53-D52	5	8	5	67.5	6412.5	11542.5	17955	17955	49.9	27	46	65	0.30	0.00	0.12	0.12	0.12	
54	D83-D53	4	69	73	985.5	93622.5	100035	193657.5	193658	537.9	30	38	80	2.14	0.07	2.81	2.81	2.81	
55	D53-D54	15	0	15	202.5	19237.5	112860	132097.5	132098	366.9	14	18	80	1.46	0.04	0.65	0.65	0.65	
56	D62-D55	2	52	54	729	69255	88492.5	157747.5	157748	438.2	140	175	65	2.84	0.14	24.68	24.68	24.68	
57	D55-D56	4	48	52	702	66690	135945	202635	202635	562.9	140	175	65	3.39	0.22	39.23	39.23	39.23	
58	D55-D56	21	0	21	283.5	26932.5	93622.5	120555	120555	334.9	9	11	65	2.02	0.09	0.96	0.96	0.96	
59	D57-D58	12	0	12	162	15390	82080	97470	97470	270.8	82	103	65	1.63	0.06	5.93	5.93	5.93	
60	D57-D59	18	0	18	202.5	19237.5	34627.5	53865	53865	149.6	90	113	65	0.90	0.02	2.17	2.17	2.17	

PROJECT :-LAYOUT PLAN OF AFFORDABLE RESIDENTIAL PLOTTED COLONY UNDER DDJAY 2016 FOR AN AREA MEASURING 10.8125 ACRES FALLING IN REVENUE ESTATE OF VILLAGE KHERI SADH, SEC-37A, TEHSIL SAMPLA, DISTRICT ROHTAK BEING DEVELOPED BY M/S SPICE ONE BUILDERS PVT LTD IN COLLABORATION WITH M/S ONE HEIGHT DEVELOPERS PVT LTD.

FLUSHING WATER SUPPLY HYDRAULIC CALCULATION

S. NO.	Line No	Total Plot			Population @ 13.5 per/day	Self total flushing water requirement from water calculation	Progressive water req. In	Total flushing water req. Per Day	Total water demand ltr /day	Peak Water Demand	Length of Pipe	Effective Length (actual length+ 25%)	Proposed line dia.	Velocity in m/sec	Frictional head losses	Total Frictional head losses	Plot	Commulative Frictional head losses	Remarks
		Self	Branch	Total															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
		NOS	NOS	NOS	NOS	NOS	NOS	NOS	LPD	LPH	Mtr	Mtr	MM	Mt/sec	Mt/Mtr	Mtr	head	Mtr	
1	STP-F01	0	264	264	3834	230040	230040	460080	460080	1278.0	2.5	3	65	7.70	1.02	3.20	3.20	3.20	
2	F01-F02	0	0	0	0	0	230040	230040	230040	639.0	7	9	50	6.51	1.02	8.90	8.90	8.90	
3	F01-F03	0	0	0	0	0	0	0	0	0.0	21	26	50	0.00	0.00	0.00	0.00	0.00	
4	F01-F04	0	264	264	3834	230040	230040	460080	460080	1278.0	9	11	65	7.70	1.02	11.51	11.51	11.51	
5	F04-F05	4	62	66	891	53460	283500	336960	336960	936.0	40	50	65	5.64	0.57	28.75	28.75	28.75	
6	F05-F06	7	0	7	94.5	5670	59130	64800	64800	180.0	62	76	50	1.83	0.18	7.31	7.31	7.31	
7	F07-F08	3	14	14	189	11340	17010	28350	28350	78.8	9	11	50	0.80	0.02	0.24	0.24	0.24	
8	F09-F10	7	0	7	94.5	5670	17010	22680	22680	63.0	51	64	50	0.64	0.01	0.69	0.69	0.69	
9	F11-F12	7	0	7	94.5	5670	11340	17010	17010	47.3	60	75	50	0.48	0.01	0.61	0.61	0.61	
10	F13-F14	0	16	16	216	12960	18630	31590	31590	87.8	9	11	50	0.89	0.03	0.29	0.29	0.29	
11	F15-F16	8	0	8	108	6480	19440	25920	25920	72.0	51	64	50	0.73	0.02	1.14	1.14	1.14	
12	F17-F18	6	0	8	108	6480	12960	19440	19440	54.0	60	75	50	0.55	0.01	0.79	0.79	0.79	
13	F19-F20	0	16	16	216	12960	19440	32400	32400	90.0	9	11	50	0.92	0.03	0.30	0.30	0.30	
14	F21-F22	8	0	8	108	6480	19440	25920	25920	72.0	51	64	50	0.73	0.02	1.14	1.14	1.14	
15	F23-F24	8	0	8	108	6480	12960	19440	19440	54.0	60	75	50	0.55	0.01	0.79	0.79	0.79	
16	F25-F26	8	16	16	216	12960	19440	32400	32400	90.0	9	11	50	0.92	0.03	0.30	0.30	0.30	
17	F27-F28	8	0	8	108	6480	19440	25920	25920	72.0	51	64	50	0.73	0.02	1.14	1.14	1.14	
18	F29-F30	8	0	8	108	6480	12960	19440	19440	54.0	60	75	50	0.55	0.01	0.79	0.79	0.79	
19	F31-F32	0	16	16	216	12960	19440	32400	32400	90.0	9	11	50	0.92	0.03	0.30	0.30	0.30	
20	F33-F34	8	0	8	108	6480	19440	25920	25920	72.0	51	64	50	0.73	0.02	1.14	1.14	1.14	
21	F35-F36	8	0	8	108	6480	12960	19440	19440	54.0	51	64	50	0.55	0.01	0.67	0.67	0.67	
22	F37-F38	0	24	24	324	19440	25920	45360	45360	126.0	9	11	50	1.28	0.05	0.57	0.57	0.57	
23	F38-F40	7	0	7	94.5	5670	25110	30780	30780	85.5	60	75	50	0.87	0.02	1.84	1.84	1.84	
24	F17-F41	0	24	24	324	19440	25110	44550	44550	123.8	38	48	65	0.75	0.01	0.64	0.64	0.64	
25	F41-F42	15	0	15	202.5	12150	31500	43740	43740	121.5	120	150	50	1.24	0.05	7.06	7.06	7.06	
26	F41-F43	8	0	9	121.5	7290	19440	26730	26730	74.2	81	101	50	0.75	0.02	1.91	1.91	1.91	
27	F04-F44	8	127	127	1714.5	102870	110160	213030	213030	591.8	52	65	65	3.56	0.25	15.99	15.99	15.99	
28	F44-F45	8	127	127	1714.5	102870	205740	308610	308610	857.3	9	11	65	5.18	0.49	5.50	5.50	5.50	
29	F45-F46	10	0	10	135	8100	110970	119070	119070	330.8	75.5	94	65	1.89	0.06	7.90	7.90	7.90	
30	F46-F47	0	20	20	270	16200	24300	40500	40500	112.5	40	50	50	1.19	0.04	2.04	2.04	2.04	
31	F47-F48	10	0	10	135	8100	24300	32400	32400	90.0	75.5	94	50	0.92	0.03	2.55	2.55	2.55	
32	F49-F50	10	0	10	135	8100	16200	24300	24300	67.5	75.5	94	50	0.69	0.02	1.50	1.50	1.50	
33	F50-F51	11	0	11	148.5	8910	17010	25920	25920	72.0	82	103	50	0.73	0.02	1.83	1.83	1.83	
34	F52-F53	15	0	15	202.5	12150	21060	33210	33210	92.3	140	175	50	0.94	0.03	4.94	4.94	4.94	
35	F53-F54	5	68	73	985.5	59130	71280	130410	130410	362.3	30	38	65	2.18	0.10	3.72	3.72	3.72	
36	F54-F55	15	0	15	202.5	12150	71280	83430	83430	231.8	140	175	50	2.36	0.16	27.22	27.22	27.22	
37	F56-F57	21	0	21	283.5	17010	29160	46170	46170	128.3	138	173	50	1.31	0.05	8.97	8.97	8.97	
38	F57-F58	4	32	36	486	29160	46170	75330	75330	209.3	27	34	65	1.28	0.04	1.21	1.21	1.21	
39	F58-F59	12	0	12	162	9720	38880	48600	48600	135.0	83	104	50	1.37	0.06	5.93	5.93	5.93	

40	F60-F61	15	0	15	216	12960	22680	35640	35640	99.0	80	100	65	0.60	3.01	0.93	0.93	0.93	
41	F58-F61	14	0	14	189	11340	24300	35640	35640	99.0	6	10	58	0.60	0.01	0.09	0.09	0.09	
42	F62-F63	0	15	15	216	12960	24300	37260	37260	103.5	71	88	58	1.05	0.03	3.10	3.10	3.10	
43	F63-F64	15	0	15	216	12960	25920	38880	38880	108.0	124	155	52	1.10	0.04	5.66	5.66	5.66	